



POLICE HEADQUARTERS

Phone/Fax No: 0194-2443031/ 2443032
0191-2459029/2459255(Jammu)

{ PROVISION SECTION }

J&K, SRINAGAR.

(Sgr)Website: www.jkpolice.gov.in
Email: phqjk@jkpolice.gov.in

Gist of e-tender notice No 34 of 2018

Dated: - 10 . 07. 2018

For and on behalf of the Governor of Jammu and Kashmir State, e-tenders are hereby invited from registered OEM's or their authorised dealers to quote against this e-tender for supply ,installation & commissioning of Machine Learning and Natural Language Processing system .The download of the NIT shall start on 10 .07.2018 from 1600 hours. Tenders shall be submitted online on J&K State e-Procurement Portal www.jktenders.gov.in upto 31.07.2018 before 1800 hours. The tenders (technical bids only) will be opened online on 02.08.2018 at 1100 hours at Police Headquarters J&K Peer Bagh Srinagar. In case of unforeseen circumstances, the date of opening will be next working day.

A pre bid conference shall be held at PHQ J&K Peer Bagh Srinagar on 25.07.2018 at 1500 hours , intending firms can participate in this conference to clarify any issue related to instant tender enquiry.

Detailed tender documents (SBD) with terms and conditions are available on J&K State e-procurement Portal www.jktenders.gov.in. The intending tenderers may visit this portal site for detailed information.


Mubassir Latifi JKPS

(AIG Provision/Transport)

For Director General of Police,
J&K-Srinagar

No: -WPR-84/2018/T.No34 of 2018 / 48220-50 Dated: 10 .07.2018

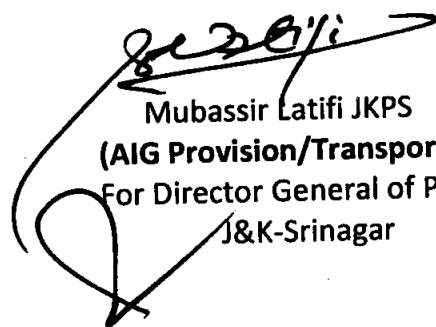
Copy to the:-

1. Principal Secretary to Govt. Home Department J&K Srinagar
2. All ADsGPJ&K
3. All IsGPJ&K

....for favour of information.

4. DIG CKR Srinagar/DIG Jammu-Kathua& Samba Range Jammu.
5. Director Police Telecom J&K Srinagar for information.
6. Director Industries Jammu/Srinagar for information.
7. Chief Accounts officer PHQ J&K Srinagar for information
8. Director FSL J&K Srinagar for information

9. Manager Government Press Srinagar / Jammu for publication of the e.tender in Govt Gazette.
10. SSP J&K CID Cell, 11 Harish Chander Mathur Lane Kasturba Gandhi Marg New Delhi-110001 alongwith copy of the e.tender for information intending firms.
11. SSP PCR Srinagar for information
12. AIG Communication PHQ J&K Srinagar for information with the request to arrange publication of Gist of the e.tender through information department.
13. In-Charge IT Centre PHQ/In-Charge e-tendering PHQ for placing the e-tender on the website of J&K Police and J&K Govt. Portal.


Mubassir Latifi JKPS
(AIG Provision/Transport)
For Director General of Police,
J&K-Srinagar



POLICE

HEADQUARTERS (Provision Section)

Phone/Fax No: 0194-2443031/ 2443032
0191-2459029/2459255(Jammu)

J&K, SRINAGAR.

(Sgr)Website: www.jkpolice.gov.in
Email: phqjk@jkpolice.gov.in

e-tender notice No 34 of 2018
Dated: - 10 .07. 2018

SBD

1.	<p>For and on behalf of the Governor J&K State, e-tenders are hereby invited from registered OEM's or their authorized dealers to quote against this e-tender for supply ,Installation & Commissioning of Machine Learning and Natural Language Processing system as detailed in Annexure 'A' to this NIT. The tender notice consisting of qualifying information, eligibility criteria, specifications, bill of quantities (BOQ), set of terms and conditions of the contract and other details can be seen/ downloaded from J&K State e-procurement portal www.jktenders.gov.in from 10 .07.2018 at 1600 hours to 31.07.2018 up to 1800 hours.</p> <p>A pre bid conference shall be held at PHQ J&K Peer Bagh Srinagar on 25.7.2018 at 1500 hours , intending firms can participate in this conference to clarify any issue related to instant tender enquiry.</p> <p>Note: Only those firms are allowed to respond who are capable to execute the supply, within shortest possible time to be specified in purchase order.</p>	
2.	Time/date and place for online opening of technical bid only	<u>On 02.08.2018 at 1100 hours at J&K</u> Police Headquarters, Peer Bagh Srinagar.
	Validity of tender offer	Upto 31.12.2019
3.	<p>All tender documents attached with this invitation to tender including the specifications are SACROSANCT for considering any offer as complete offer. It is important that scanned copies of each page of the tender document duly completed, page numbered and signed are uploaded with your offer in a sequential manner and not haphazardly.</p>	
4.	<p>The tender fee has been fixed Rs. 2000/- (to be deposited in J&K State Govt. treasury under head 0055-Police 2018-19) which must clearly indicate the name (depositor) & tender no. Scanned copy of the treasury challan be uploaded with tender .The original be sent by post to the AIG Provision &</p>	

Transport C/O Director General of Police J&K Peer Bagh Srinagar alongwith covering letter in an envelope & should have a card affixed to it duly signed and stamped by the firm indicating (1) Name of the firm(2)Tender No (3) Date of opening of the technical bids. The SSI units of J&K State only are required to pay the tender fee prescribed as per J&K Govt. rules provided they are registered for supply of the tendered items. However, the Govt/ Semi Govt. concerns of the J&K State claiming exemption shall append copies of the authenticated orders, existence/ registration certificates etc. with regards to the SSI units issued by the competent authority in support of their claim. Tenders without stipulated tender fee shall be rejected.

5. Earnest Money Deposit (EMD):-

The intending tenderers will have to upload scanned copies of the Earnest Money Deposit in the shape of Call Deposit Receipt valid at call or DFR/Bank Guarantee valid till 31.12.2019 from any nationalized bank/State owned Banks for an amount of Rs 4,00,000/-(Rs four lacs only) pledged to AIG (Prov/Tpt) PHQ J&K with the tender offer. However, the successful tenderer would have to deposit the Earnest Money Deposit in original, with Police Hqrs J&K before allotting the work or issuing supply order. The EMD of successful tenderer will be adjusted towards security money (required to be deposited) on application, for due performance of the agreed contract/performance during the warranty period. No interest shall be payable by the purchaser on the EMD deposited by the tenderer. The J&K Govt. rules with regard to furnishing of EMD in respect of local Registered SSI units of J&K State shall be applicable in letter and spirit. Tenders without EMD shall be rejected.

6.	iii) Approximate completion time	Within 45 days from the date of issue of supply order.
	v) Inspection authority / place of survey	Survey of the Social Media Cells to be conducted by the board of officers to be constituted by the PHQ separately & certificate of installation /commissioning to be issued by the end user.
	vii) Payment terms	Payment shall be released by the department after delivery of material and Survey of the monitoring Cells by the board of officers & certificate of installation /commissioning to be issued by the end user.
7.	Rates quoted by the firms should be on firm price basis ie including all taxes/duties/charges if any.	
8.	i. If approved supplier backs out or fails to execute the supply order after placement of order within stipulated delivery period ,the department will be at liberty to get the supplies executed from L-2 firm and differential amount between L-1 & L-2 rates will be recovered from the security deposit furnished by the approved supplier and remaining amount will be recovered from L-1 firm besides invoking other penalties which shall include black-listing of the firm etc.	
9.	Firms shall clearly indicate different taxes, duties, charges which they propose to charge as per the format of Bill of quantity (BOQ) available with the e-tender.	
10.	Conditional tender will not be accepted /entertained. It will be summarily rejected.	
11.	Department reserves the right to change the quantity of sites as mentioned in the tender.	
12.	Department reserves the right to get the executing capacity of all the firms re-verified/checked irrespective of the registration status or any other document / information.	
13.	Department reserves the right to cancel/reject or scrap the tender, with no consequential liability	
14.	TWO BID SYSTEM:-	

All bidders are required to submit their offers in two covers online as under:-

(A) **FIRST COVER (Technical Bid)** is to be uploaded Online and **scanned copies in PDF format** should contain the following documents:-

i.	Tender documents (viz technical compliance, registration/existence certificates of the firms / SSI Units & performance etc.) duly page numbered completed and signed BUT WITHOUT INDICATING THE RATES QUOTED.
ii.	All pages of the technical bid/pre-qualification documents must be clearly page marked at the bottom centre of each page before scanning the same and uploaded to e-tendering portal.
iii.	Duplicate documents /pages shall not be uploaded by the bidders
iv.	Documents to be scanned ,converted to PDF format and subsequently uploaded to the portal must be scanned at 200 DPI(Dots per inch) resolution/scale.
v.	Tender fee and EMD document must be scanned and placed in separate PDF files.
vi.	Bidders are advised not to upload any irrelevant /un-necessary documents on tender portal.
vii.	Scanned copy of the NIT, all pages duly signed & stamped by the tenderer, in token of having understood and accepted the specifications, terms & conditions of the NIT.
viii.	Self attested copies of Income tax returns for the last 03 years
ix.	Scanned copy of Chartered Accountant duly vetted financial statements comprising of P &LA/C balance sheet for the last 03 years, VAT return upto 7/2017 & latest GST return upto 3/2018.
x.	Scanned copy of performance statement /turn over for last three years as APPENDIX-III of this NIT.
xi.	Acceptance of delivery, maintenance of the monitoring Cells.
xii.	Acceptance regarding execution of work within the stipulated time frame.
xiii.	Scanned copy of PAN no/GST/TIN No. Self-attested photocopies

	thereof be appended.				
xiv.	Check list for tenders as per APPENDIX-IV of this NIT.				
xv.	Any other relevant document which the firms wishes to submit				
15.	<p>(B) SECOND COVER (Commercial/Price Bid) should contain the following:-</p> <table border="1"> <tr> <td>i.</td> <td> <p>Rate quoted by the firm should be on firm price basis as per Bill of Quantities (BOQ) of the e-tender to be downloaded from the website and Rates should be carefully quoted offline and then uploaded</p> <p>(Rate quoted shall be final.</p> <p>The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p> </td> </tr> <tr> <td>ii.</td> <td> <p>Rates quoted shall be final till the validity of the contract i.e. upto 31.12.2019 with provision of further extension if finally approved by competent authority.</p> </td> </tr> </table>	i.	<p>Rate quoted by the firm should be on firm price basis as per Bill of Quantities (BOQ) of the e-tender to be downloaded from the website and Rates should be carefully quoted offline and then uploaded</p> <p>(Rate quoted shall be final.</p> <p>The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p>	ii.	<p>Rates quoted shall be final till the validity of the contract i.e. upto 31.12.2019 with provision of further extension if finally approved by competent authority.</p>
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ii.	<p>Rates quoted shall be final till the validity of the contract i.e. upto 31.12.2019 with provision of further extension if finally approved by competent authority.</p>				
16.	<p>On due date of opening of tenders i.e. 01.08.2018 at 1100 hours, technical bids only shall be opened and technical evaluation process shall start. Those who qualify the technical bid on a/c documents uploaded by them shall be informed online with regard to opening of financial bids of the technically qualified firms.</p>				
17.	<p>Security Deposit: - The approved tenderer will have to furnish security deposit @ 5% of the total value in the shape of CDR/FDR valid for three year issued by a Nationalized/Scheduled Banks pledged to AIG Provision & Transport PHQ J&K Srinagar, at the time of signing of Deed of Agreement to ensure satisfactory performance of the contract, warranty period/agreed contract. The charges on stamps etc. (cost of documents in totality) shall be borne by the supplier while executing the agreement. (No interest shall be paid by the department on the Security deposit). J&K Govt rules for Security Deposit in respect of local SSI Units shall be applicable</p>				
18.	<p>Guarantee/Warranty</p> <p>Except as otherwise provided in the invitation to the tender, the approved supplier hereby declares that setting up of Social Media Monitoring Cells shall be in all respects strictly as per RFP/requirement of the department. The approved supplier hereby guarantees the functionality/updating of Social Monitoring Cells as per requirement of the department for a period of 03 years from the date of acceptance.</p>				

19.	Liquidity Damages Successful tenderer shall have to complete the supply, installation/commissioning of Social Media Monitoring Cells within stipulated period as would be mentioned in the supply order. J&K Police reserves the right to impose liquidity damages of 5% of the cost of un-supplied material if the supplies are not executed/installation is not completed in stipulated time frame.
20.	As soon as the acceptance of the tender is communicated to the successful tenderers online, the contract shall be binding on him. The earnest money of the tenderer who backs out or withdraw his tender or fails to abide by it after acceptance thereof is communicated/posted to him shall be forfeited besides other penal remedies that may be available to the Govt. of the J&K under the law for the time being in force in the State of J&K.
21.	The successful tenderer shall have to enter into an agreement on prescribed proforma (immediately after the issue of supply order) with the Department for due performance of the contract which shall be invariably furnished before the supply is made.
22.	The tenderer are required to furnish an authenticated copy of latest GST return. The PHQ shall be at liberty to put to scrutiny, verification etc. the GST clearance so furnished by the successful tenderer.
23.	The authorities reserve absolute powers to reject or accept any tender or part thereof without assigning any reason and without any legal obligations. Any clause incorporated in the tender (not conforming to the NIT in any manner) shall make such an offer liable for rejection. Therefore, all the terms and conditions of the tender Notice including technical specifications shall be carefully studied for the sake of complete and comprehensive tender. Failure to comply with any of the conditions stipulated in the tender or instructions or the offer with insufficient particulars/documents shall lead to out-right rejection of the tender offer.
24.	If after the registration/placement of orders/execution of the agreement and formally depositing the security money, in case the tenderer backs out or fails to execute the work, the security deposited will be forfeited besides imposing any other penal provisions as the department may decide to invoke.
25.	The formal deed incorporating the terms of the contract will be executed by the successful tenderer immediately after receipt of supply order. Failure to execute such bond/deed shall not however prevent the contract from being enforced against the tenderer. Any loss sustained by the Govt. as a result of re-tendering the contract shall be recovered from the defaulter, besides other penal provisions as the department may decide.

26.	If at any stage of the tender process two or more bidders are found in collusion between /among themselves with the intent to reduce competition, set price, share technical expertise ,share business information /decision ,control/share production and or distribution of products and raise prices ,all such tenders shall be out rightly rejected.
27.	If at any stage of tender process any bidder/s is/are found influencing any Government Servant associated with or handling the tender process and supplies thereof, bid of such tenderer/s shall be rejected besides invoking penal action under rules.
28.	All legal proceedings arising out of any dispute between the parties shall have to be settled in the Courts situated in Srinagar and Jammu and not elsewhere
29.	The supplier shall not sublet the contract or any part thereof to any other agency
30.	The Department reserves the right to add or suitably modify the terms and conditions (without prior notification) as per exigencies and hence above shall not be construed as all inclusive.
31.	Bidders submitting their bids on-line shall only be accepted and manual bids shall be rejected and no document other than mentioned in the NIT shall be accepted manually.
32.	PHQ may call any bidder at any stage of the tender process for seeking any clarification.
33.	The bidder should furnish an undertaking APPENDIX-II of this NIT stating that he /she is not connected in any manner with any other bidder in this tender with respect to manufacturing ,distribution, supply, in sharing business information/documents price of the item etc. for the items quoted in this bid and has not been blacklisted by any Central /State Governments . If this is found to be incorrect, his/her tender would be liable to be rejected without any further notice.
34.	The detailed NIT, SBD and BOQ are available on J&K State e-Procurement portal www.jktenders.gov.in .


Mubassir Latifi

(AIG Provision/Transport)

For Director General of Police,
J&K-Srinagar

APPENDIX-I

MANUFACTURER'S AUTHORIZATION LETTER/CERTIFICATE;

To,
The Director General of Police
J&K, Jammu/Srinagar.

Subject:- _____

Sir,

Please refer to your e-tender enquiry (NIT) No- 34 of 2018 dated
.07.2018.

1. We _____ who are proven and reputable Manufacturers of _____
(name and description of the items offered in the tender) having facilities at
_____ hereby authorize M/s _____ (name and address of the
agent) to submit a tender, process the same further and enter into a contract
with you against your requirement as contained in the above referred tender
enquiry documents for the above said goods manufactured by us.
2. We also hereby extend our full warranty, CMS, support as per the conditions
of contract, read with modifications, if any, in the special conditions of
contract for the goods and services offered for supply by the above firm
against this tender enquiry document.

Yours faithfully,

Signature with date, name and designation

For and on behalf of M/s _____

(Name and address of the Manufacturers)

Note:-

- a. This letter should be on the letter head of the manufacturing firm and
should be signed by the person who is competent having the power of
attorney.
- b. Scan copy of the original letter must be attached with tender documents.

SIGNATURE OF THE TENDERER.

APPENDIX-II

Reference e.NIT No 34 of 2018 dated- .07.2018.

To,

The Director General of Police
J&K, Srinagar.

Sir,

1. _____ hereby state that I am not connected in any manner with any other bidder in this tender in sharing business information/documents and price quoted in this bid.
2. I further state that if this is found to be correct, the police department is at liberty to reject my tender.
3. I further certify that my concern has neither blacklisted nor banned by any central or state organizations to participate in tendering process.

Yours faithfully,

Signature with date, name and designation

For and on behalf of M/s _____

(Name and address of the tenderer)

Note:-

- a. This undertaking should be on the letter head of the tenderer firm and should be signed by the authorized person.
- b. Scan copy of the original letter must be attached with tender documents.

APPENDIX-III

Performance statement for last three years

Name of the firm	
Description of work executed	
Quantity on order	
Value	
Original execution period	
Whether executed in stipulated time frame or other wise	
Extension sought for final execution	
Reasons for delay in execution (if any)	
Past performance in % age upto1 / 2 crores	
Past performance in % age above 2 crores	

Countersignatures of Procurement agency/department.

Signature of Tenderer

APPENDIX-IV

General instructions/CHECK LIST FOR TENDERERS;

Before submission of tender documents, the tenderers should check whether they have complied with the following requirements or otherwise:-

<u>S.No</u>	<u>Requirement to be checked before submission of the tender</u>	<u>Complied</u> <u>(Please indicate YES</u> <u>or NO after</u> <u>complying with the</u> <u>requirement.</u>
1.	Whether covering letter indicating name , make /model of quoted items is uploaded	
2.	The tenderers for their own ease shall fill in relevant details of NIT offline & upload the same after ensuring accuracy	
3.	Whether tender fee scanned copy is enclosed, with the technical bid?	
4.	Whether Earnest Money Deposit (EMD) scanned copy is enclosed with the technical bid?	
5.	If an SSI Unit of J&K State, the same is indicated in the tender and scan copy of the valid registration/functional certificate is enclosed or not?	
6.	Whether scanned copies of complete tender documents are up-loaded in the technical bid duly signed having official seal on all pages or not. However, the quoted items may be also be ticked?	
7.	Whether tender documents are submitted in two bid system i.e. Technical and Financial Bids separately as per tender enquiry or not?	
8.	Whether offer validity as required in tender enquiry is accepted and indicated in your tender document or not?	
9.	Whether terms of execution required in tender enquiry is accepted and indicated in your tender document or not?	
10.	Whether payment terms as required in the tender enquiry is accepted and indicated in your tender document or not?	
11.	Whether performance statement for last 3 years as required in tender enquiry in the format is enclosed or not. If not, reason thereof is given?	

12.	Whether warranty period as required in the tender enquiry is accepted or not?	
13.	Whether maintenance conditions of the lease line during warranty /post warranty is accepted	
14.	If called for T.E. whether free training about usage of lease line is accepted or not?	
15.	Whether indicated in the tender document, if your firm's business dealings is banned by any Govt/Private agency or recommended for blacklisting or not?	
16.	The complete commercial quote should be in Indian Rupees only. Currency of price should be clearly mentioned (wherever applicable).	
17.	Tenderers are required to indicate Basic Rate, +GST/duties /charges if any which the firm wish to charge from department in the relevant columns of the BOQ.	
18.	Tenderer will attach justification of price quoted which should include the recently executed contracts with Govt/Semi Govt Organizations etc.	
19.	No column should be left blank. Wherever amount is not quoted, the column should be clearly marked as 'Nil'.	
20.	Valid registration certificate of approved dealer with central/state tax department for the items quoted	
21.	Whether latest GST return has been uploaded	
22.	Whether SSI unit -registration certificate is uploaded (local SSI units of J&K State only)	
23.	Whether Scanned copies of EMD and Tender Fee are uploaded	
24.	Whether Scanned copy of NIT duly Signed & sealed	
25.	Whether Income tax return is uploaded	
26.	Whether Govt. supply orders for same if any	

Annexure 'A' of e.tender No 34 of 2018 dated .07.2018

Machine Learning and Natural Language Processing

No. of Server Licenses Required	01
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S.No	Functionality	Compliance (Yes / No)
1	The solution should be able to ingest multiple documents, PDF's, text files etc at the same time. The system should accept the documents in a batch form or one at a time. The documents should be visible in a pipeline. The user should be allowed to drop the document as long as it's in the pipeline and hasn't been processed yet. The system should identify and remove duplicates	
2	The system should have different workflows for ingesting different type of documents. The workflows should be customized for different sort of documents available with the customer.	
3	The system should automatically extract and store metadata against every document type uploaded. The metadata should be used to carry out analysis to link different documents together	
4	System should be able to run all machine automation algorithms on English, Urdu and Hindi.	
5	The system should extract the following entities from unstructured data – <ul style="list-style-type: none">• People• Organizations• Places• Events / Incidences• Addresses• Images and Videos• Phone Numbers• IMEI's / IMSI / Phone Model• Vehicle Numbers• IP Address• Credit Card / Debit Card Numbers / Bank Account Numbers• Dates and Timelines• Mail ID's	

6	The system should have a pipeline of RPA (Robotic Process Automation) modules to cleanse the data	
7	The system should have modules to ingest – <ul style="list-style-type: none"> • Passport Data • Vehicle registration data • License Card Holder data • CDR's • Interrogation reports • Intelligence inputs • FIR's • Travel related information • Crime related information • Other data sources available with the client 	
8	System should be able to run all machine automation algorithms on English, Urdu and Hindi.	
9	System should have multiple Machine Automation models as an integrated framework	
10	System should classify the documents into multiple categories using statistical models	
11	System should extract all entities from unstructured data. The entities which need to be extracted have been defined as above.	
12	System should extract and save themes from all unstructured data. The system should be able to form a conceptual and contextual understanding of all data	
13	System should be able to carry out entity disambiguation from large datasets. The threshold to distinguish two entities should be in the hands of the client	
14	System should carry out sentiment analysis on every document uploaded into the system. The system should also carry out sentiment against every entity mentioned in the document	
	System should be able to automatically build relationships among entities	
15	System should have inbuilt metrics for similarity, regression, correlation	

	and recommendations metrics	
16	System should have options for 'What if' hypothesis	
17	The system should have capability to stack multiple regression modules into a pipeline – Stack one algorithm over another and subsequently carry out ensembling for predictive intelligence on threat alerts	
18	The system should have inbuilt AI models for Facial Biometrics. The facial biometrics should run across all images to identify individuals who are available in multiple images. The system should automatically detect images from the uploaded images and videos and match it against all the pictures available to the user	
19	The system should have AI library for object identification and should be automatically able to identify objects out of the picture and tag them	
20	The system should have modules and provisions to resolve entity collision and prompt the user for final decision to resolve a collision	
21	The entire source code of application have to submitted to escrow account	

Big Data Analytics

No. of Server Licenses Required	02
No. of Client Licenses Required	10

S.No	Functionality	Compliance (Yes / No)
1	The solution should be able to analyze TeraBytes of data. It should be able to hold as many documents as can be held in the database. The solution should be built on a Big Data Analysis framework such as Hadoop, MongoDB, GraphDB etc. Any other Big Data analysis framework may be used as well	
2	The system should bring disparate datasets into a single library	
3	Solution should have support for any structured and unstructured data sets and should build indexes efficiently for easy search, discovery and analysis, using compaction and indexing techniques	
4	User should be able to configure alerts for any new update on their key analysis. The system should generate an automatic alert if any new input is available for user defined keywords	
5	It should be possible to add new data sources to the existing data repository for increasing the scope of analysis	
6	The system should be able to ingest mail dump in the form of Psd file and automatically extract intelligence from it	
7	The system should have modules for entity disambiguation, ontology extraction and association. Vendor should train the solution on the datasets provided by the client for increasing the accuracy of the algorithms.	
8	The system should have options to merge multiple records into one entity. The system should also have provisions to ensure that subsequent records are automatically merged against the merged entity based on a set of pre-defined keywords	
9	It should be possible to carry out a conceptual search across the entire data set	
10	The solution should classify documents in specific categories. Should automatically relate or link multiple documents whereas files in different formats can be linked to each other	

11	The solution should provide modules for a user to define his alerts in.	
12	<p>Solution should have multiple searching algorithms including –</p> <ul style="list-style-type: none"> ▪ Fuzzy search - For matching meta-tags and return a list of most likely correction of given words ▪ Boolean Search – Uses APCM (Adaptive Probabilistic Concept Modeling) like technique to rank the results that match the Boolean Query. Supported operators are AND, OR, NOT, XOR ▪ Conceptual Search – Enable searches to be processed and retrieved conceptually on the concepts against the article. ▪ Keyboard Search - software conceptually matches queries that consist of a single keyword. It stems the keyword, and then it finds documents that contain words that have the same stem as the keyword. Support all document formats ▪ Phrase Occurrence Search - Uses a phrase occurrence search to find documents containing a range of occurrences of a phrase ▪ Default Phrase search - Uses quotation marks (“..”) to treat the string as a phrase and return only documents in which a matching phrase occurs ▪ Exact Phrase search - Querying with a term or a phrase in quotation marks, it matches them in their exact pre- stemmed form ▪ Proximity Search – Looks for documents where two or more separately matching terms occur within a specified distance, where distance is the number of intermediate words or characters. Proximity search goes beyond the simple matching of words by adding the constraints of proximity ▪ GIS Search: Ability to search for geotagged events and entities by drawing a polygon fence on the map. 	
13	The system should allow manual and fully automatic linking between related pieces of information, regardless of their format. The concept in document should be linked to those in another file. They can also be linked to related concepts within video or email	
14	System should support full text searching on the entire dataset available	

15	<p>System should have a visual link analysis platform to with multiple components –</p> <ul style="list-style-type: none"> • Relationship graph to study co-relation among people, places and topics • Geospatial analysis • Timeline Analysis • Preconfigured analysis • Charts and Reports 	
15	<p>System should allow the analyst multiple queries to retrieve data –</p> <ul style="list-style-type: none"> • Simple 360 degree search • Complex Queries for structured filters • Multiple views to search for separate entities 	
16	<p>User should be allowed to view the entity related document, the search entities should be automatically highlighted. Users should be allowed to mark new entities in the document on the fly</p>	
17	<p>Should be able to generate a relevancy graph for each of the various entities including location, name of person, name of organization, keywords etc</p>	
18	<p>System should have multiple views for a user to be able to get a 360 degree view on a person, location, organization or an event</p>	
19	<p>Should be able to depict the relation between various extracted entities in a graphical form with a representation of how strongly one is connected to other. The graph should be dynamic as clicking any link should open the relevant content.</p>	
20	<p>Investigators should be able to annotate reports, read and write comments/annotations on reports to aid in collaboration of work during investigative phase</p>	
21	<p>Query templates should support entity based search and the time should be selectable on a timeline</p>	
22	<p>System should have multiple widgets and dashboards. The user should be able to create his own dashboard using any of the multiple widgets available inside the system</p>	
23	<p>Report generation module should be capable of generating reports based on query / result to include at least the following –</p> <ul style="list-style-type: none"> • Time / Date based query 	

	<ul style="list-style-type: none"> • Topic Importance / Priorities • Location based • Name of people / organization / group 	
24	Information should be displayed using advanced visualization and charts	
25	The solution should have support for Association, network, link, temporal and statistical analysis to help build a comprehensive analytical picture, revealing relationships, patterns and trends in data	
26	The system should allow analyst to carry out partitioning and sharding of data. The user should be able to join different data tables together and carry out excel like functions – filter, sort and pivot on the data set	
27	User should be able to view any of the data in the Big data repository and dynamically create charts on the data set	
28	The system should have GIS capability of variety of GIS operations of simple mapping, indexing and Spatial analysis	
29	The system should have advance overview wizard for spatial analysis, Statistical analysis and suitability analysis.	
30	The system should have Geospatial search and analysis to leverage operational analytics	
31	The system should plot data from classified and open source database to track activities.	
32	<p>The system should have Analytics on –</p> <ul style="list-style-type: none"> • Clustering • Scatter Plots graphs • Timeline Analysis • Query on map layers 	
33	The system should have GIS data editor to use the map to add and update features to populate empty map layers.	
34	The system should have map layer to access analytic functions and to display and interact with the layers. It should contain facility to store, capture, query, analyze and display information on geographic layers. Provision should exist to create and save layers that encapsulate all of the GIS aspects necessary for map display, map analysis, data compilation and management. Sharing of map/ layer packages to adopt and share common views	
35	The system should have Provision to create, display and edit military symbols on map and plot movement of unit / formation / group on map	
36	Digital terrain and elevation data should be available for advanced analysis. There should be provision to further analyze in detail routes of interest with 3-D view	
37	The system should have capability to manage multiuser databases that can be used and edited simultaneously by multiple users. This should be scalable to N number of users.	
38	The entire source code of application have to submitted to escrow account	

Social Media Analytics

No. of Server Licenses Required			02
S.No	Classification	Sub Category	Specifications
1	Data Ingestors		Support for both Crawling and Scraping model as well as ability to ingest data from proprietary API's wherever available from the source end
			Ability to Browser Based interactive scraping. This is for instances where there is a lot of Java Script based backend code and multilevel user interaction is mandatory
			Ability to ingest data from multiple Social Media and Web platforms via their API's
			The system should support for Twitter streaming API for real time (minimal latency) data retrieval
			Ability to provide input filters in the form of: <ul style="list-style-type: none"> • Geographically bound polygon • Multiple keywords • Multiple Social media handles
			System should have a provision for a user to add his own "twitter", "face book" profiles as Avatars. These profiles are used to get data off private profiles on face book
		Twitter	The system should support for full time stack of Twitter REST API to extract extended information
		Facebook	Support for full stack of Face book Graph API for ingesting available information
			Support for Scraping based Face book data extraction to get access to FB data that is hidden from Graph API
			Support for handling and creating multiple FB avatars to ensure scraping
			Support for scheduling these FB avatars scraping periods and frequencies
			Support for doing precision FB crawl by specifying or assigning Avatars to specific profiles or groups
			System has a provision to monitor people profiles in Facebook
			System has a provision to identify suspicious profiles on Facebook based on users likes
Instagram	Scraping of data from Instagram via specific scrappers created		

			for Scrapers
		Youtube	Support for full stack of Youtube API
		News and Blogs via RS Feeds	The framework should be able to ingest data on real time basis from multiple RSS feeds. The framework should be intelligent enough to manage the update frequencies to ensure the sanctity of data
		Dark Web	The system should be able to extract information from Dark Web marketplaces
		WhatsApp	The system should be able to inject and analyze data from WhatsApp via connecting the phone to the server. System can get data related to Group Name , Group Admin, Group Created On, Group Image, Group Status, Total number of contact ,msg,image,video,document in groups, List of all Participant, All Image of Group, All Video of Group, All Document Uploaded in Group, All Contact share in Group, All Location share in Group
		Google Blogs, Tumbler & Wordpress	The system should ingest data from Google Blogs, word press and tumbler
2	Big Data Repository		System should be built on Big Data repository to handle large amounts of data
			System should have complete provision for proper and optimized indexing mechanisms to ensure fast response to analytical queries
			Database should be scalable enough to ensure fast insertion of high volume streaming data
			Properly managed to ensure de duplication and optimized storage capacity usage
3	Text Analytics		System should have inbuilt NLP capability to carry out entity extraction from unstructured data in the form of – <ul style="list-style-type: none"> • People • Places • Events • Organizations
			System should automatically calculate sentiment against a piece of text. Individual sentiment analytics should be done against entities defined in the text. The sentiment score should be carried out internally and not using a third party library over the internet.
			System should classify every piece of text and extract themes out of it
			System should carry out text summarization on the data inside

			the system
4	Data Analytics, Reports and Dashboard		<p>User should be able to create views in the form of –</p> <ul style="list-style-type: none"> • Geo Fenced data • Keywords or events • Persons
			From Whatsapp data system should do Classification Chart of all msg, Sentiment chart of all msg, Emotional chart of all msg, All msg time line, msg chart per week wise, negative users, positive users etc.
			System should have a custom query builder to carry out Boolean operations
			System should have multiple widgets and allow a user to create his own dashboard using any of the widgets available to him
			Dashboard view should provide information in visually rich form factors in terms of Maps, Charts, Tag Clouds, Sort lists etc..
			Dashboard view should collate data from all sources relevant to user's analysis
			Users should have option for a quick access time filter on a day, week and month basis
			All analysis should be filterable by date range
			All analysis should be filterable by multiple text filters
			Filter data based on input keywords using multiple Boolean operations
			Option to use multiple search option in combination with each other
			System should give the user the capability to do Deep Dive analysis into each source separately
			System should have an event calendar
			System should allow users to have multiple views in terms of trends, timelines, viral media, user views etc
			System should have flexibility to do timeline/temporal analysis to understand the flow of events
			System should have a link analysis module to understand the interrelations amongst many entities
			System should have multiple reports for different platforms like user comparison, hashtag vitality, sentiment charts etc

		<p>Multiple analytical containers should be sharable among users</p> <p>System has a provision to identify suspicious profiles on Facebook based on users likes</p> <p>System can identify people on social network based on mail ID, phone numbers etc</p> <p>System should identify trends, key influencers against a particular event</p> <p>System identifies Geo Locations (wherever possible) for user checkins, pictures, tags, tweets etc</p> <p>System supports report generation in terms of graphs, documents, xls, pdf's etc</p> <p>System supports Fuzzy search, Proximity search, Conceptual search on the gathered</p> <p>System supports cascading query results i.e subsequent queries should be possible</p> <p>System has a link analysis module to identify common followers / common following / friends etc of multiple profiles</p>
5	System overview	<p>System should be scalable to add more Sources when available</p> <p>Should provide a full system and Subsystem health overview, alerting system technicians to servers that are down or to services that are running</p> <p>System should have a Two factor Authentication system for login access</p>
6	The entire source code of application have to submitted to escrow account	


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 For Director General of Police,
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