No. 1628 /AIGP(Prov.)   Date.30.11.2023.

To

The Deputy Director & Deputy Secretary (Advertisement),
Government of Odisha, I & PR Department, Bhubaneswar.

Sub: Publication of Artificial Intelligence search CCTNS Odisha Police during the current financial year, 2023-24.

Sir,

With reference to the subject cited above, it is to intimate that Odisha Police is going to Floated bid of Artificial Intelligence search CCTNS Odisha Police through GeM Portal for the year 2023-24.

It is requested to publish in at least two leading Odia Dailies as well as two leading National English Dailies in all editions for two consecutive days by 01.12.2023 for wide publicity for participate more bidder (T) GeM Portal.

The editor of the concerned newspaper may please be requested to send the relevant paper cutting to this headquarter for record and reference.

Yours faithfully,

AIG of Police (Prov.)
Odisha, Cuttack

Memo No. 1629 / AIGP(Prov.)   Dtd.30.11.2023.
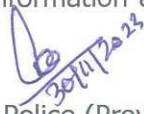
Copy forwarded to the Head of Department, State Portal Group I.T. Centre, Department of I.T., Odisha Secretariat, Bhubaneswar for information and necessary action. He is requested that the same may kindly be publishing in newspaper uploading in the State Government website by 01.12.2023 for wide publicity.

AIG of Police (Prov.)
Odisha, Cuttack.

Memo No. ___1630___ / AIGP(Prov.)   Dtd.30.11.2023.

Copy forwarded to the PRO, State Police Hdqrs, Cuttack for information and necessary action.

AIG of Police (Prov.)
Odisha, Cuttack

Memo No. ___1631___ / AIGP(Prov.)   Dtd.30.11.2023.

Copy along with copy of bid details forwarded to the Section Officer, Supply Section, S.P. Hdqrs, Cuttack for favour of kind information and necessary action.

AIG of Police (Prov.)
Odisha, Cuttack

Memo No. ___1632___ / AIGP(Prov.)   Dtd.30.11.2023.

Copy along with copy of bid details forwarded to the IT Cell, S.P. Hdqrs, Cuttack for uploading in the Odisha Police website.

AIG of Police (Prov.)
Odisha, Cuttack

Odisha Police
Office of the D.G & I.G. of Police, Odisha, Cuttack
Bid No. GEM/2023/B/4252047

Online Bid through GeM Portal https://gem.gov.in vide Bid No. GEM/2023/B/4252047 is invited from the eligible bidders for purchase of Artificial Intelligence Search CCTNS for Odisha Police (SCRB) during the current financial year 2023-24 as per the particulars mentioned below.

Sl. No.	Name of Item	Approximate quantity
1.	Artificial Intelligence Search CCTNS for Odisha Police	1

Sl. No.	Particulars	Date & Time	
1	Date & Time of publish of bid	28.11.2023	
2	*Date & time for submission of queries by E-Mail id :-*	07.12.2023 by 05 PM	
3	Date & Time of Pre Bid meeting	The Prospective bidders are requested to submit their queries relating to the tender/bid of the AI through Mail ID - aig-prov.odpol@gov.in by 07.12.2023 by 05.00 PM in this connection a pre-bid technical committee will be held on 11.12.23 at 12.00 Noon in virtual mode and the link will be sent through mail for the meeting.	
4	Date & Time of online bid submission	Start Date & Time	End date & Time
		28.11.2023	19.12.2023, 3.00 PM

The bid document with all information relating to the bidding process Prequalification criteria and terms & conditions are available in the GeM Bid No. GEM/2023/B/4252047 floated on GeM Portal. The Authority reserves the right to accept / reject any part thereof or all the bids without assigning any reason thereof.

A.I.G. of Police (Provisioning,)
Odisha, Cuttack.
(Tender Calling Authority)

User Request Document
for

AI Search CCTNS Odisha

Contents

1. Project Background

The Crime and Criminal Tracking Networks and Systems, abbreviated to CCTNS, is a project under Indian government for creating ==comprehensive and integrated system== for enhancing the efficiency and effective policing at all levels and especially at the Police Station level through adoption of principles of e-Governance, and creation of a nationwide networked infrastructure for evolution of IT-enabled state of- the-art tracking system around =="investigation of crime and detection of criminals"== in real time, which is a critical requirement in the context of the present day internal security scenario. The key outcomes are as f

- Facilitate interaction and sharing of info between police establishments in the country
- Automation and computerization of FIRs
- Make police functioning citizen friendly
- Pan India search on National database of Crime & Criminal records
- Provide latest information technology to investigating officers
- Improve police functioning in Law &Order; Traffic Management
- Keep track of the progress of Cases, including in Courts
- Reduce manual and redundant Records keeping

The project also integrated with ==e-courts & e-prison applications== so that all three systems are interoperable.

2. Objective :

Odisha Police has implemented CCTNS Project successfully covering 600+ police stations and 200+ higher offices across the state. Odisha being considered as one of the advance State in the implementation of best practices and intends to implement AI/ML/NLPtext based search analytics of CCTNS database to assist its investigating officers during various phases of investigations and criminal search for data analytics. The Director SCRB being a Nodal Agency is assigned of CCTNS project implementation and statistical record keeping. It is necessary to adopt emerging technology for various types of semantic search using text analytics of CCTNS Database to track accused / convicts quickly and save efforts and time for investigation or report analytics. Director SCRB is looking forward to conduct a Proof of concept (POC) for search analytics using AI/NLP on CCTNS text database by inviting

various professional agencies through an open tendering process. The selected bidder will be onboarded to develop the tools / technology and training for CCTNS Odisha.

3. Scope of Work:

The existing data of Odisha police is in English in RDBMS. The NLP based search analytics POC will be limited to structured data in English only.
The following are the scope of work for AI search on crime and criminals.

- Search should from attributes like Crime , Accused Name /Alias, Occurrence Places, Properties, Landmark /Spot ,Victim Name , Case Category, Act , Sections, Physical Description of Accused / Victim, Relative Name of Accused /Victim, Modus Operandi , Date & Time, Weapons, Motive , Age, Sex, Caste, witness name etc.

- Search will be from existing SQL Server CCTNS Database and unstructured data sources like regular PDF, excel, word file (not scanned)

- Near Search

   - If accuse data exists on "Mahul" or "Mehul" or "Mehull" then when search with the word "Mehul" all the above should be displayed

   - If accuse data exists on "Gaurav Sahoo" or "Gaurab Kumar Sahu" or "Gaurbh Kumar Saahoo" etc then when search with the word "Gaurav Sahoo" all the above should be displayed.

   - Similar kind of search in combination with at least above parameters should be achievable

   - Search will be from existing SQL Server CCTNS Database.

- Semantic Search (Exact data fields)

   - NLP search on exact data fields like Accused, Relatives, Crime, Place , Properties, Year etc

   - Sample Queries to be covered :-
      - ✓ Cases Rames Das involved in Jajapur District
      - ✓ Cases Rames Das involved in Jajapur District in property offece cases
      - ✓ Cases Rames Das s/o Harihar involved during 2022
      - ✓ Cases Ramesh Dash in chain snatching
      - ✓ Ramesh Das involved in drugs and narcotic cases
      - ✓ Accused involved in murder cases of children below 10 years
      - ✓ Accused list inKendrapada in narcotics cases
      - ✓ Ramesh of Haripur involved in auto theft cases
      - ✓ Cases of bank robberies during 2022
      - ✓ Witch hunting cases victim of ST community in year 2022
      - ✓ Search will be from existing SQL Server CCTNS Database.

- Semantic Search (Free text fields)
  - NLP search including free text field of FIR_BRIEF_DESCRIPTION data field of cctns database
  - Queries to be covered on Accused, Relative, Crime, Place, Properties, Year etc
  - Sample queries will be as follows
    - Theft cases of Honda Shine red color in 2022 in Jajapur
    - Accused in brown sugar drugs cases in Raiginia Bhubaneswar
    - Child kidnapping cases from slum areas in Bhubansewar
    - Bronze iodol theft accused list from year 2019 to 2023
  - Search will be from existing SQL Server CCTNS Database and regular PDF (not scanned) files related to complainant copy etc

- Chatbot for Citizen
  - AI Chatbot to be integrated with our existing Citizen Portal developed in .net and Citizen App (Android/iOS)
  - Chatbot should able to understand citizen natural queries and engage with appropriate responses in English Language only
  - Bot should facilitate for incident/Complaint reporting
  - Bot should facilitate status enquiry of cases and various citizen services
  - Bot should facilitate citizen queries on various Police Services
  - Bot should facilitate Women and Childrelated queries on public safety
  - Bot should facilitate on Police related Senior Citizen queries on emergency services

- Bidder need to develop search interface and it should be integrated with existing CCTNS CAS Application and Mobile App
- Bidder need impart training and knowledge Transfer to at least two SCRB resource personnel regarding the system.
- Bidder need to provide SOPs/User Manual /Technical documents etc before its exit.
- Bidder need to deploy one AI/ML resource person at SCRB Bhubaneswar for support and maintenance.

- The proposed system may be developed on open source / proprietary license
- The solution may be hosted on-premises State Data Centre. However bidder may use cloud services for designing solution .But the Police data should not be reside in any cloud data center and NDA needs to be signed. Bidder may provide infra requirements in their proposal and Odisha Police will facilitate the same
- State Police may require additional functionality over the solution and the bidder need to develop through change request as per mutual agreement.

4. Change Request

a. The Agency shall cater to Change Request tasks that may be intimated by SCRB throughout the Contract Period after go-live. Only those tasks shall be covered under Change Request Management where the efforts to carry out those tasks are expected to span more than TWO (2) man-days, which shall be mutually determined by SCRB and the Agency. The basic functionalities (indicative) of the Change Request tasks are as follows.

   i. Functional changes in the application

   ii. Development of new modules in the existing Software

   iii. Integration with any new system

b. The process to address the change request shall be as follows:

i. Documenting change request requirement: The details of scope of change will be analyzed and documented by SCRB and intimated to the Agency. The Agency will submit the effort (in terms of number of man-days) and timeline for incorporation of changes in the application.

Approval or disapproval of the Change Request: The Project team of SCRB will discuss with the Agency and approve or disapprove the Change Request submitted by the Agency.

iii. Implementation of the Change Request: After approval of the Change Request, the Agency shall start the process of incorporation of changes in the application. The change will be implemented in accordance with the agreed cost, effort and schedule.

iv. Validating Change Request implementations - The end user group/Project team of SCRB will review the changes incorporated in the application and confirm on the same.

3.15.2 Change Request Charges

The Change Request amount shall be calculated based on quoted man-day rate of professionals and the approved effort for the specific Change Request. 100% Payment shall be done after satisfactory completion of Change Request tasks. The Agency will submit all

the invoices in duplicate to the PMU Section. SCRB Office

5. Duration of Engagement:

The engagement will be initially for a period of 1 Year. The same may be further extendable on mutual agreement by both party.

6. Pre-Qualification Criteria

SNO	Pre-Qualification Condition	Description
1.	Bidder should be registered company in India	Bidder to provide company registration certificate in response
2.	Bidder should have executed 5 projects in the area of Machine Learning or Artificial Intelligence or Natural Language Processing	Bidder to provide copy of orders or completion certificate
3.	Bidder shall have the office/support centre in Bhubaneswar or shall setup the same within 30days of award of contract	Bidder to provide proof or shall provide an undertaking.
4.	Bidder shall have minimum two resources who have experience of ML/AI/NLP.	Bidder to provide the short resume of resources. Customer may meet thepeople or check the project references.

7. Technical Score

SNO	Items/Activity	Maximum Technical Score
1.	Quality of Bid Response to Tender Requirements as detailed in "Scope of Work"	30
2.	Number of ML/NLP/AI Projects executed: 4 Points for eachproject subject to maximum 20 points	20
3.	Presentation of Proposed System • Understanding of the Data • Approach and Methodology	30

4.	Resume of at least 2 resources for the work with below experience and capabilities • Educational Qualification: B.Tech/BE in Computers or Mathematical computing or MCA (Maximum 5marks) • Minimum 4 Years of Experience (Maximum 5 marks) • Technology experience of Machine Learning, Natural Language Processing and Artificial Intelligence (Maximum 10marks) • Domain experience of applying relevant technologies in Crime Analytics (Maximum 10 marks)	20
	TOTAL	100

8. PROJECT PLAN, DELIVERABLES

Deliverables	Timeline	Delivery to be completed
Inception Report	T+1 M	As-Is study, Feasibility assessment report, risk and mitigation measures of existing system
Design, Development and Implementation	T+4M	• Design and Development of AI/NLP tool for the said requirement • Design and development of the Search interface which to be integrated with existing CCTNS Application and Mobile App

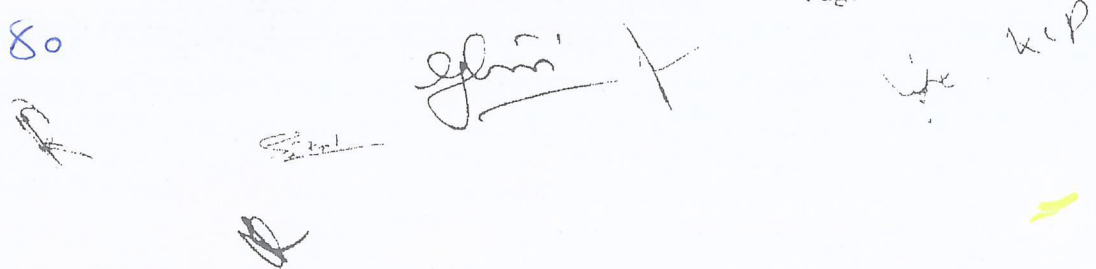| User Acceptance	T+5M	User Acceptance for at least 100 scenarios as per the scope mentioned above.
Go-Live	T+6M	Production Rollout.
Support	T+6M	Support and Maintenance 6-12 Months post Go-Live

9. Payments

SNO.	Item	Activity/Milestone	Amount to be paid to bidder
1	Development and Deployment of System	• On delivery of software, installation of the same on SCRB server • This will be verified by SCRB on the installed servers and same will be used for User Acceptance testing which will be conducted by SCRB with the supportof Vendor.	30% of Contract Amount
2	Go-Live	• On Rollout (Commissioning of system)	50% of the Contract Amount
3	O & M	• Operation and Maintenance	20 % in two equal installments (As month of March is the fag end of financial year the O & M payment shall be released before March against the IBG of same amount

10. SELECTION METHOD :

a) As this is latest and deep technology work, bid will be evaluated on QCBS (Qualify and Cost Based Selection) considering 80% weightage for technical and 20% weightage for commercial.

80

b) Formula for evaluation score = 80 * (points of bidder/total technical points (i.e. 100) + 20*(price of L1 bidder/price of bidder).

c) Price inclusive of all taxes will be considered for evaluation of bid.

d) Bidder who scores maximum score based on above formula will be declared as successful bidder.5

11. SUPPORT TO BE PROVIDED BY Odisha Police

- Authorization and support to access data and all the required documents, correspondence, and any other information and as deemednecessary.
- Provision of working space and access to internetconnectivity.
- Logistical arrangements for organizing trainings /workshop.
- Arrangements for hosting the CCTNS solution at the State Data Centre.
- Hardware, software license procurement if anyfor the project

12. SLA and Penalties

1. Any delay attributed to bidder shall attract a penalty of 0.5% of contract value per week will be applied.
2. Maximum penalty under this contract will be capped at 5% of contract value.
3. Payments links with accuracy of Search Criteria.

SL No	Accuracy In Search In English Language only	Penalty
1	80 % and above	No penalty
2	> 70% and< 80 %	1 %
3	> 60% and < 70 %	5 %
4	< 60 %	No payment

** Subject to availability of data as per the agreed parameters with respect to CCTNS.Non-Availability of required data in CCTNS will not be considered for SLA/Penalty calculations.

13. Commercial Format

All prices shall be quoted in INR as per format shown below.

SNO.	Item	Amount	Tax Amount	Amount with Tax
1	Development and Deployment of System			
2	Six Months of Support and Maintenance			