



## **EXPRESSION OF INTEREST FOR CENTRAL DATA STORE**

1. The National Vocational and Technical Training Commission (NAVTTTC) invites Expressions of Interest “EOI” from registered Companies (“bidders”) who are on the Active Taxpayers List of the Federal Board of Revenue for the development of the National Skill Information System (NSIS) and the National Employment Exchange Tools (NEXT) Portal.
2. Request for EOI documents, (containing detailed terms and conditions, etc. are available on the NAVTTTC <http://navttc.gov.pk>. EOI documents can also be downloaded from PPRA website [www.ppra.org.pk](http://www.ppra.org.pk) free of cost. The EOI prepared in accordance with the instructions in this document, must submit online EPAD (<https://eprocure.gov.pk/#/auth/login>) and also hard copy reach upto or before 3.00pm 15-04-2024 at office of Deputy Director (GA), Ground Floor Plot # 38, Kirthar Road, Sector H-9/4, NAVTTTC HQs Islamabad which will be opened the same day at 3.30pm publically.
3. NAVTTTC reserves the right to accept or reject any or all bids under the provision of PP Rules-2004.

**Deputy Director (GA)**  
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## Introduction:

### 1. BUSINESS REQUIREMENTS (SCOPE OF WORK)

NAVTTTC is determined to align vocational training with market demands, ensure a skilled workforce, and support the country's economic development goals. This is to be achieved by a new-generation technology solution that enables the following:

1. **Efficient Matching of Employers and Job Seekers:** The job matching engine and machine learning capabilities match job seekers with potential employers based on skills, experience, qualifications, and job requirements. This improves the efficiency of the hiring process and increases the chances of successful employment.
2. **Real-time Data-Driven Decision Making:** Make informed decisions based on real-time data. Interactive dashboards and predictive analytics help understand trends, forecast industry demands, and align training programs accordingly.
3. **Enhanced Collaboration with Industry Partners:** Facilitate seamless collaboration between NAVTTTC, educational institutions, and industry partners. The API layer enables secure and efficient data exchange, fostering partnerships and integrations that benefit the job market.
4. **Data Reliability Security and Compliance:** With robust measures in place, the platform ensures the validity and privacy of user data, complies with relevant data protection regulations, and maintains its users' trust.

### 2. Target Solution

The target solution architecture for a new-generation technology platform powered by NAVTTTC should facilitate a dynamic and efficient interaction between potential employers and skilled resources. The architecture should encompass a Data Store, Data Exchange Layer, Data Analytics Module, Web and Mobile Application, and an API Layer. Here are the critical solution requirements for each component.

#### 1. *Data Store:*

- a. **Type:** A hybrid database system that supports OLTP (Online Transaction Processing) for operational requirements and OLAP (Online Analytical Processing) for analytical purposes.
- b. **Features:**
  - i. **High Performance:** Capable of handling high I/O, large volumes of data, and complex queries efficiently.
  - ii. **Scalability:** Easily scalable to manage growing data needs without compromising performance.
  - iii. **Data Variety:** Supports various data formats, including structured, semi-structured, and unstructured data.

## 2. *Data Exchange Layer:*

### a. **Components:**

- i. **ETL (Extract, Transform, Load) Tool:** For batch data processing from various source systems.
- ii. **Data Streaming:** Capabilities to process real-time data streams for immediate insights and responses.
- iii. **API Management:** A secure and efficient system for managing and providing APIs to third-party services.

### b. **Features:**

- i. **Performance:** High throughput for handling large volumes of data efficiently.
- ii. **Flexibility:** Ability to handle diverse data sources and formats.
- iii. **Security:** Robust security measures for data transmission and access.

## 3. *Data Analytics Module:*

### a. **Components:**

- i. **Business Intelligence Tool:** For interactive dashboards and visualizations.
- ii. **Advanced Analytics:** Statistical analysis, predictive modeling, and machine learning capabilities.
- iii. **Data Wrangling Tools:** For data cleaning, transformation, and preparation.
- iv. **Geo-Analytics:** Tools for mapping and geographic data analysis.

### b. **Features:**

- i. **User-Friendly:** Intuitive interfaces for non-technical users to create and interact with reports and dashboards.
- ii. **Real-Time Insights:** Capabilities to analyze and visualize data in real-time.
- iii. **Collaboration:** Features to share insights, reports, and collaborate across teams.

## 4. *Web and Mobile Application:*

### a. **Components:**

- i. **User Management:** Registration and profile management for employers and job seekers.
- ii. **Job Matching Engine:** Uses algorithms and machine learning to match job seekers with employers.
- iii. **Notification System:** Alerts and notifications for application

- status, job postings, and other updates.
- iv. **Content Management:** Access to resources, guides, and training materials.
- v. **Communication Tools:** In-app messaging, email integration, and forums.

**b. Features:**

- i. **Responsive Design:** Seamless experience across devices (desktop, tablet, mobile).
- ii. **Accessibility:** Compliance with web accessibility standards.
- iii. **Security:** Data encryption, secure authentication, and privacy protection.

**5. API Layer:**

**a. Components:**

- i. **Authentication & Authorization:** OAuth, JWT, or similar protocols for secure access.
- ii. **Data Exchange Formats:** Support for JSON, XML, etc., for standardized data exchange.
- iii. **Rate Limiting:** Controls to manage the number of requests.
- iv. **Error Management:** Consistent error responses and logging.
- v. **Documentation:** Comprehensive guides and examples for developers.

**b. Features:**

- i. **Scalability:** Handle increasing loads and demands smoothly.
- ii. **Security:** Robust measures to protect against unauthorized access and data breaches.
- iii. **Monitor ability:** Tools for tracking usage, performance, and issues.

This solution should provide a robust, secure, and user-friendly platform for effectively bridging the gap between employers and skilled resources, enhancing employment opportunities, and fostering a skilled workforce aligned with industry demands. The proposed architecture should be modular and scalable to evolve with the changing needs and technologies.

- 3.** To align with the Government's approach, the utilization of this platform is envisioned to enhance the data consumption skills of civil servants. To achieve this, a five-day workshop is proposed. The workshop will necessitate the following features on the data platform for both Workshop Participants and organizers:
- i. Signing Up
  - ii. Participant Acceptance or Rejection
  - iii. NDA Signing

- iv. Authentication via WhatsApp Integration
- v. Provision of an in-built Python-based IDE for participants to develop code over the cloud, granting access to GPU resources.
- vi. Documentation tree of the API for external use, accessible outside of the internal IDE
- vii. Generation of an authentication essential registry for secure API access
- viii. Single Sign-On for authentication
- ix. Capability to create teams.
- x. Accessibility for cross-team communication and a community help center

#### **4. INVITATION TO SUBMIT AN EXPRESSION OF INTEREST**

NAVTTTC intends to pre-qualify eligible bidders through this request for an Expression of Interest “EOI”. Those bidders who pre-qualify in this EOI will be invited to participate in Request for Quotation for the development of the National Skill Information System (NSIS) and the National Employment Exchange Tools (NEXT) Portal.. Bidder giving the lowest financial bid will be hired for services subject to PP Rules-2004.

**5.** Eligible bidders are invited to submit a proposal to participate in NAVTTTC pre-qualification process for development of the National Skill Information System (NSIS) and the National Employment Exchange Tools (NEXT) Portal. . Bidders should submit their proposals, detailing their experience and qualifications through EPAD and also in the form provided in this document.

#### **6. TERMS AND CONDITIONS:**

6.1. This request for EOI will be subject to the Public Procurement Regulations 2004, and any other relevant rules.

6.2. NAVTTTC will ensure all data submitted by prospective bidder is treated as confidential. All bidders will be expected to keep any information received from NAVTTTC confidential.

6.3. All expenses related to participating in this request for EOI will be borne by the bidders.

6.4. NAVTTTC reserves the right to verify any information submitted by bidders.

6.5. Any information which is found to be false will be ground for rejection. Any misstatement or concealment will also be grounds for rejections.

6.6. NAVTTTC reserves the right to at any time cancel this procurement process without notice and disclaims all and any liability in that instance in accordance with applicable laws.

6.7. All queries must be in writing or through email to [burhan.rasool@gmail.com](mailto:burhan.rasool@gmail.com)

6.8. In responding to this request for EOI, all bidders accept the responsibility fully to understand this EOI document in its entirety, and in detail, including making any inquiries to NAVTTTC as necessary to gain such understanding. NAVTTTC reserves the right to disqualify any bidder who demonstrates less than such understanding. Further, we reserve the right to determine, at its sole discretion, whether the bidder has demonstrated such understanding. That right extends to cancellation of award if award has been made. Such disqualification and/or cancellation shall be at no fault, cost, or liability whatsoever to NAVTTTC.

## **7. DEADLINE FOR SUBMISSION AND PROCEDURE**

7.1. All prospective bidders must send an email to burhan.rasool@gmail.com with their contact details. NAVTT will not be liable for any missed communications due to a failure to provide this information.

7.2. By 1500 hours on 15th April 2024, all proposals must reach the NAVTTC office and proposals will be opened at 1530 hours on the same day at NAVTTC HQ ISLAMABAD.

7.3. Submission cannot be through email but E-PAD and hard copy.

7.4. All envelopes must be sealed, include all documents required and must be clearly marked: “EOI TO PRE-QUALIFY THE development of the National Skill Information System (NSIS) and the National Employment Exchange Tools (NEXT) Portal.

## **8. TERMS OF REFERENCE Successful bidders will be required to provide the following services:**

8.1. NAVTTC through this EOI intends to hire well reputed bidders for provisioning development of the National Skill Information System (NSIS) and the National Employment Exchange Tools (NEXT) Portal including Technical / Support Team for NAVTTC through Managed Services for continued, sustainable and smooth operations for its Head Quarter (HQ) located at Islamabad. The selected vendor / service provider is responsible for on job training and capacity building of NAVTTC Staff by utilizing its Technical / Support Team in the areas of their expertise during the currency of contract.

## **9. DOCUMENT**

9.1. All bidders must submit in a sealed envelope:

9.2. An EOI in a sealed envelope (labelled as “EXPRESSION OF INTEREST” and indicating the bidder’s name) which includes:

9.2.1.1. A letter of introduction briefly detailing the prospective bidder’s suitability for this assignment; 6.2.1.2. A profile of the bidder;

9.2.1.3. CV’s of all partners and key staff;

9.2.1.4. A detailed list of relevant experience satisfying the requirement;

9.2.1.5. Original Affidavit (not more than 30 days old) on Stamp Paper of at least Rs 100 value that the Bidder is not insolvent, bankrupt, or blacklisted or debarred by any public agencies. Also stating that there are no pending criminal matters against the Bidder;

9.2.1.6. Copies of tax returns of previous five (05) years; and

9.2.1.7. Incorporation certificate along with NTN certificate.

9.2.1.8. Bidder must have a strong background of providing IT managed services to similar size and reputable organizations. Attach the list of clients.

## 10. EVALUATION CRITERIA AND PROCESS

### TECHNICAL EVALUATION CRITERIA

S#	Criteria	Score
1	The prime bidder should be a registered entity in Pakistan as a Public/Private limited company.	5
2	In the case of a Consortium or JV, the bidder must present the agreement with a mention of the responsibilities of each member.	10
3	The bidder and their partner(s) should not be blacklisted by any bank/institution in Pakistan.	10
4	Bidder and solution providers should have 3+ years' experience providing IT solutions and services.	5
5	The bidder should provide a Manufacturer Authorization Form from the solution's principal supplier(s).	10
6	Bidder must have a dedicated team in Pakistan that can provide key professional services.	10
7	Bidder or their professional services partner should provide at least two references of a similar nature in the public sector.	10
8	The bidder should propose a solution architecture that aligns with the requirements of this EOI.	15
9	Bidder should provide CVs/Profiles of the proposed team to carry out the solution development and integration work.	10
10	Bidder should provide complete Managed Services offered and SLA for 3 years	15
	<b>Total:</b>	<b>100</b>

#### Note:

- 1 Scores are signed by the evaluation team based on the submitted proposal.
- 2 A score of 0 in any criteria will disqualify the bidder.
- 3 Top-scoring bids are to be considered for the next stage.

10.1. All bidders whose EOI are complete at opening, will be evaluated on the basis of the technical evaluation criteria detailed in this document. Those bidders who fail to achieve the minimum criteria (as required) will not be pre-qualified.

10.2. Only those bidders who are found technically responsive and clear the minimum qualification -criteria laid out will be invited to for process of Request for Quotation for development of the National Skill Information System (NSIS) and the National Employment Exchange Tools (NEXT) Portal including Technical / Support to NAVTTC.

10.3. Bidders must meet all the above mandatory required qualification criteria to qualify a bidder.

## 11. Special Conditions

- i) Each page of the RFP must be signed and stamped. Incomplete papers will not be accepted.
- ii) NAVTTC shall not pay any tax, and the rates quoted by the bidders should be inclusive of all taxes.
- iii) In addition to proof of registration at Active Taxpayer List (ATL) of FBR, the National Tax Number (NTN), and bank Account Number must be clearly mentioned by each bidder.

- iv) Bid validity period is **90-days** which may be extended for further period, as admissible under Public Procurement Rules, 2004.
- v) Any lapse in fulfilling requirements or any other stipulated condition (s) in the tender may render the bid liable to rejection.
- vi) The bids shall be evaluated by the Committee constituted by NAVTTC, whose recommendations will be treated as final.
- vii) The interested parties must give full address of its office/residence with Telephone/Fax Numbers and cell numbers and contact persons with designation.
- viii) Income Tax/any other tax if livable will be deducted at source, on the prescribed rate for onward payment to the FBR/ Tax Department/Government of Pakistan.
- ix) The bidders must clearly mention per unit rate (inclusive all taxes) and total rate (inclusive all taxes) of the required work(s).
- x) NAVTTC will not be responsible for any cost or expense incurred by Bidders in connection with the preparation or submission of bids.
- xi) The bidder will have to submit an **affidavit** on stamp paper regarding years of experience in social media management/content development, and that it has not been blacklisted in the past on account of inefficiency/non-delivery/misconduct by any public sector organization. The affidavit should be attested by the Notary Public. On account of submission of false statement, the firm may be blacklisted and debarred from any bidding processes.
- xii) The relevant information and the related documents must be provided.
- xiii) The Purchaser and the Supplier shall make every effort to amicably resolve, by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the Contract. In case of any dispute, the matter will be referred to the Executive Director (NAVTTC), whose decision will be binding on both parties.
- xiv) The firm will be hired initially for period of one year however the services may be halted at any stage owing to the prevailing conditions.
- xv) The successful bidder shall be responsible to fulfill all the conditions mentioned in tender document.
- xvi) The details of deliverables will be as per the signed agreement.
- xvii) After technical qualification, the Contract will be awarded to most advantageous bid as per PPRA Rules.

Signature: \_\_\_\_\_