



**INVITATION FOR
EXPRESSION OF INTEREST FOR
“DEVELOPMENT OF SKILL DEVELOPMENT MANAGEMENT SYSTEM”**

8th November 2016

Version 1.0

1. Invitation for Expression of Interest

a.	This is an invitation from NSDC for submission of Expression of Interest (Eoi) by qualified IT service providers to develop new Skill Development Management System (<i>called SDMS hereafter</i>) in line with the training & certification guidelines published under PMKVY 2.0 by Ministry of Skill Development & Entrepreneurship, Government of India
b.	Scope of the work shall include requirement gathering, project planning, application design, development, testing, go-live and warranty support for at least 6 months (long term <i>run support excluded</i>). Detailed scope of work shall be published during RFP stage
c.	This document should not be construed as Request for Proposal (RFP). RFP stage shall commence only after successful closure of Eoi stage and shall be limited only to the vendors who respond to this Eoi and are shortlisted for the RFP stage
d.	Sealed Eoi responses prepared in accordance with the procedure enumerated in this document along with the Demand Draft of the required value.
e.	NSDC reserves the right to qualify or disqualify any or all Eoi responses without assigning any reason
f.	NSDC also reserves the right to update this Eoi document until the day before submission of response. If the nature of update requires change in the date of submission, then the same will also be updated in the revised version of this document

2. Schedule for Invitation to Eoi

SL. No.	Items	Details
1.	Name of the entity	National Skill Development Corporation (NSDC)
2.	Contact Person	Name: Rakesh Ranjan Email Id: rakesh.ranjan@nsdcindia.org Tel: 99100 29567 Name: Capt. Uday Prasad Email Id: uday.prasad@nsdcindia.org
3.	Time & Date of Submission of Eoi	3.00 pm on 23.11.2016 at Block-A, Clarion Collection (Qutab Hotel), Shaheed Jeet Singh Marg, New Delhi-110016
4.	Last date for submission of queries	16 .11.2016 through email to the contact person with copy to Capt. Uday Prasad
5.	Publish response to queries	21.11.2016 (by NSDC)
6.	Media	<ul style="list-style-type: none"> Hard copy of document, duly signed and serial numbered

SL. No.	Items	Details
		<ul style="list-style-type: none"> • Soft/ Scanned copies of all documents in Adobe pdf format on CD/DVD submitted in duplicate (not returnable) • Annex index of files along with version number with the cover letter for easy reference • No file should be password protected
7.	Announcement of shortlisted respondents for RFP stage	28.11.2016
8.	Eoi briefing sessions	29 .11.2016 onwards (<i>only for IT service providers who submit response to this Eoi</i>)

3. Shortlisting criteria

SL. No.	Criteria	Supporting Document	Comments
a.	Company registered in India under the Companies Act 1956	Certificate of Incorporation/ Registration	Mandatory Submission
b.	Average overall annual revenue of at least Rs. 250 crores (<i>Rupees Two Hundred and Fifty crores only</i>) from IT Services only, during the previous three financial years (2013-2014, 2014-2015 & 2015-2016)	Audited/ Certified financial statements & annual report. If revenue classification under IT services is not mentioned explicitly, a certificate from the statutory auditors of the company qualifying the revenue may be obtained.	Mandatory Submission Revenue from SI services shall only be considered
c.	Should not have been blacklisted by a client at any point of time.	Certificate from statutory auditor	Mandatory Submission
d.	IT services delivery capability certified at CMMI Level 4 or 5, ISO or an equivalent certification recognized by IT industry	Signed Copies of Certificates	Mandatory Submission

4. About NSDC

The National Skill Development Corporation, (NSDC) is a one of its kind, Public Private Partnership in India, under the Ministry of Skill Development & Entrepreneurship. It aims to promote skill development by catalyzing creation of large, quality, for-profit vocational institutions. NSDC provides funding to build scalable, for-profit vocational training initiatives. Its mandate is also to enable support systems such as quality assurance, information systems and train the trainer academies either directly or through partnerships. NSDC acts as a catalyst in skill development by providing funding to enterprises, companies and organizations that provide skill training. It will also develop appropriate models to enhance, support and coordinate private sector initiatives. The differentiated focus for the 40 sectors under NSDC's purview and its understanding of their viability will make every sector attractive to private investment. The need for a robust and efficient SDMS arises from the large mandate of NSDC to skill 1 crore youth over 4 years as an implementing agency for PMKVY Other key government schemes like NULM and Udaan to promote skill development are also implemented by NSDC.

5. Need for a new SDMS

The SDMS was originally designed as a transaction processing system to support the core mandate of the NSDC of investing in scalable, high quality, vocational training initiatives. The SDMS architecture, hence, was developed as a training provider-centric solution to manage and monitor NSDC investments that were limited to a few hundred training providers. With the broadening of NSDC's mandate to implement the *PMKVY* through its own training partners, as well as the training partners of the SSCs, the SDMS was expanded in scope to work with candidate-level information of millions of candidates and a strong emphasis on certification of the training experience. The system architecture was not initially designed for the present function or to operate on this scale and each additional functionality guided by the ecosystem need was added as a separate module. The training provider-centric design of the system also renders it less useful to its largest client base, the candidates themselves. Mitigating these challenges keeping the requirement of a robust MIS to make the growing skill ecosystem more efficient and transparent will require a complete redesign of the system with redefined business requirements and a candidate-centric data structure that enables it to function effectively as a core transactional system for PMKVY and all SSCs. This requires a scalable, efficient, and effective transaction processing system that can manage high volumes of short-term skill development course data

6. Features of new SDMS (SDMS 3.0)

Below is a list of features that are envisaged in the new version of SDMS however further refinement is expected during RFP and design stages

SL. No.	Feature/ Module	Additional Information
Functional Requirement (Web based Application)		
a.	Candidate registration and onboarding process	<ul style="list-style-type: none"> Aadhaar e-KYC for registration in states other than NE states and J&K Use of alternate Identity proofs in NE states and J&K Workflow based approval process
b.	Candidate dashboard and feedback process	Summary information of all activities, Pending activities queue, Message inbox and links to commonly used functions
c.	Training Partner registration and onboarding process	Workflow based approval process
d.	Batch & Training Management by Training Partner	Batch creation, daily attendance using Aadhaar authentication, Assessment etc. (<i>Aadhaar is not mandatory for candidates residing in NE states and J&K</i>). Applicable to <ol style="list-style-type: none"> Short term trainings Recognition of Prior Learning Special Projects
e.	Campaign Management for conducting Kaushal and Rozgar Mela	Establish communication channel with potential participants, delivery of promotional messages, query handling
f.	Training Partner Dashboard	Summary information of all activities, Pending activities queue, Message inbox and links to commonly used functions
g.	Assessment Agency registration and onboarding process	Workflow based approval process
h.	Assessment Agency Dashboard	Summary information of all activities, Pending activities queue, Message inbox and links to commonly used functions

SL. No.	Feature/ Module	Additional Information
i.	SSC Dashboard	Summary information of all activities, Pending activities queue, Message inbox and links to commonly used functions
j.	NSDC Dashboard	Summary information of all activities, Pending activities queue, Message inbox and links to commonly used functions
k.	Integration with accounting system on Microsoft Dynamics AX	<ul style="list-style-type: none"> • Manage allocations and fund disbursement to training partners and approval workflow • Remittance through Aadhaar Payment Bridge, NEFT, RTGS to Training Partners
l.	Certificate generation	Generation of certificate data dump for printing along with an approval workflow
m.	Monitoring	Meant for NSDC and Inspection agencies for ensuring adherence to guidelines and fraud prevention
n.	Reporting	Performance reports generation. Also generate data sets meant for publishing on LMIS (http://lmis.gov.in)
o.	Notification	Promotional & Transaction based Push notifications, SMS and Email notifications to all the concerned stakeholders
p.	Data Analytics	Creation of a data warehouse using Big Data principles for enabling warehouse and analytics
q.	Chat bots for simple queries	Automated answers to commonly asked queries for better user experience
r.	Migration of data from existing system to new SDMS	Transactional and Analytical data included
s.	System administration & Maintenance of master data of SSCs, Skills Qualifications, user roles etc.	All master data to be accessed by SDMS and peripheral applications
Functional Requirement (Mobile Application(s))		

SL. No.	Feature/ Module	Additional Information
t.	Candidate Registration	<ul style="list-style-type: none"> Registration for candidates residing in NE states and J&K by using Aadhaar or another approved identity Registration of candidates from other states having Aadhaar number through Aadhaar OTP based e-KYC process.
u.	Candidate Dashboard and Feedback	Summary information of all activities, Pending activities queue, Message inbox, Request for an upcoming training and links to commonly used functions
v.	Candidate Advisory service	Multi-lingual advisory based on language preference. Communication through push notification, SMS or email based on preference
w.	Candidate query resolution	Interface for posting queries
x.	Assessment process by AA	Checklist based assessment and submission of report
Non-Functional Requirement		
y.	Leverage of open source languages and frameworks	Vendor dependency is not desirable in respect of proprietary tools/ frameworks
z.	Highest level of data security	Data both in transit and at rest should be absolutely secure by means of data encryption or equivalent means
aa.	Exposing of selected services to third party applications securely	In a bid to build ecosystem around SDMS, commonly used services may be exposed to third party services through APIs exposed as secure web services

7. Deliverables by Respondents

All respondents to this EoI are expected to submit supporting documents in respect to the shortlisting criteria stated in Sec 3 of this document. In addition to the above, respondents are also expected to submit the following deliverables for thorough and unbiased assessment by NSDC to shortlist them for RFP stage:

SL. No.	Deliverable	Comment
a)	Cover Letter on Company letter head signed by authorized signatory	Include the following: <ul style="list-style-type: none"> • Contact person • Email Id, Telephone Number
b)	Write-up not exceeding four A4 size pages on two projects of similar complexity and scale delivered successfully in India or abroad	Focus on problem resolution and benefits derived thereafter will be appreciated
c)	High level deployment architecture schema not exceeding one A4 size page as envisaged by the respondent	Indicate the actors too
d)	Write-up not exceeding one A4 size page describing your experience of leveraging open source tools/ frameworks	Indicate examples of large scale deployments
e)	Write up not exceeding one A4 size page on project management methodology	Indicate the best practices and checkpoints which will help in avoiding schedule and cost overruns
f)	Demand draft of Rs. 5000 in favor of “National Skill Development Corporation”	Responses to this EoI without the DD or post-dated DD shall not be considered for assessment

Kindly note that NSDC might request additional documents or invite representatives of the responding entities for interviews to complete assessment & shortlisting process.

8. Glossary of Terms & References

Term	Meaning
AA	Assessment Agency
GoI	Government of India
MSDE	Ministry of Skill Development & Entrepreneurship
NSDA	National Skill Development Authority
NSDC	Nation Skill Development Corporation
PMKVY	Prime Minister Kaushal Vikas Yojana
SDMS	Skill Development Management System
SI	System Integration
SSC	Sector Skill Council
TP	Training Partner
UIDAI	Unique Identification Authority of India

- a. PMKVY Scheme ([View](#))
- b. PMKVY Guidelines (2016-2020) ([Download](#))
- c. National Skill Development Corporation Website ([View](#))

***** End of Document *****