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# Karnataka e-GP Blockchain Project (Vendor Credentials & Bank Guarantee Network)



# Overview

Purpose

An Overview

Reason for Blockchain

Current Status

Screenshots

# Vendor Credentials Network - Purpose

## Vendors

- No single place to stack and organize all credentials
- Cost of search is high & time consuming

## E-GP Systems

- Handling of Voluminous unstructured data
- Increased cost of maintenance

## Procuring Entities

- No standard mechanism to verify the credentials submitted
- Significant investment in verification process

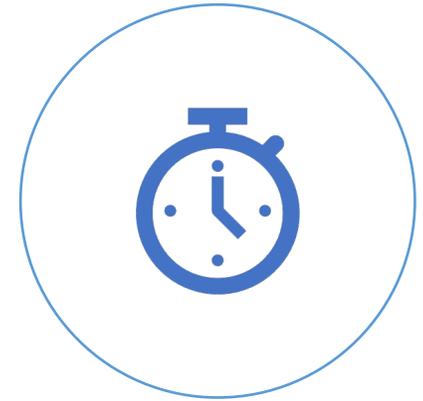
# Bank Guarantee Network - Purpose



BANKS DO NOT HAVE A FACILITY TO SUBMIT BANK GUARANTEE IN ELECTRONIC FORMAT



BG SUBMITTED IN PHYSICAL FORM.



VERIFYING AUTHENTICITY OF THE BANK GUARANTEE TAKES TIME

# Vendor Credentials Network - Business Process

- A software system that:
  - Identifies a vendor by a unique GUID
  - Publishes vendor's work experience certificates in a central database
  - Retrieve work experiences directly from the central database
  - A mechanism to verify the authenticity of the work experience certificates.



# Vendor Credentials & Bank Guarantee Network - Technology

- The following key details will be published as Blockchain records:
  - Vendor's Global ID
  - Work experience certificates
  - Bank guarantee
- The software will enable the e-Government Procurement systems to retrieve the following key records from the Blockchain:
  - Work experience certificates &
  - Bank guarantee
- Ideally, all the e-Government Procurement systems and the Banks have to be onboarded onto the project.

# Reason for Blockchain



## **Trust**

Need to bring trust to the data & contents



## **Collaborative Working –**

Allowing individual participants to have their own local replica for ease of processing



## **Auditability**

Capability to trace transactions through history

# Current Status

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Design is mostly finalized

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Software development of AoC upload in progress

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e-GP registration has commenced

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Soft launch targeted in December 2021

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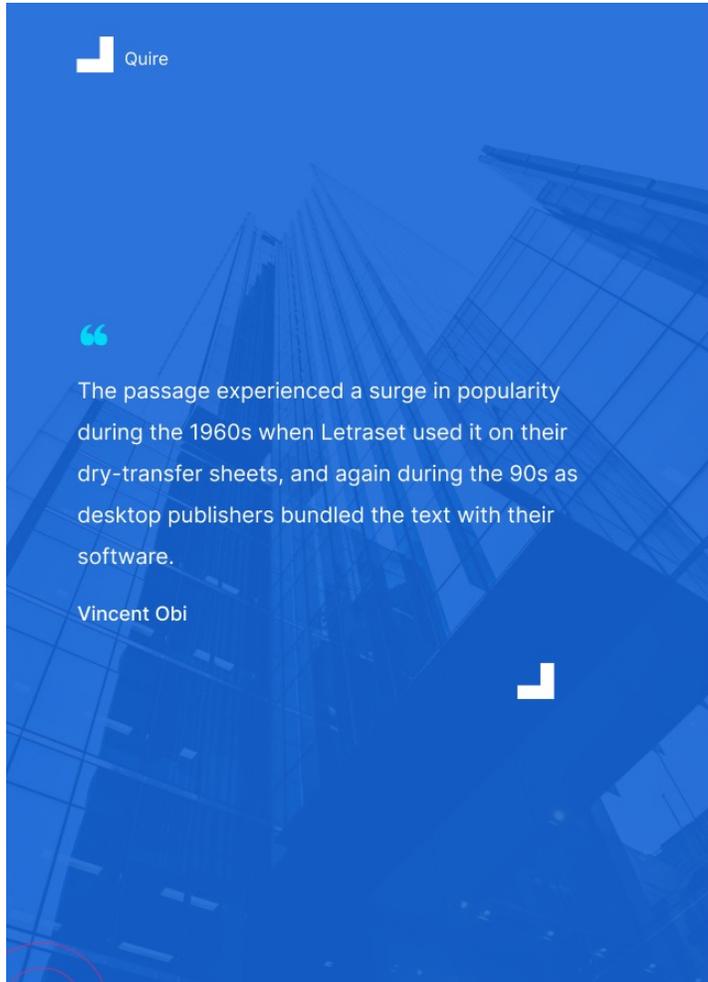
Roll out planned in the first quarter of 2022



Thank You



# Screenshots



[← Back](#)    [Already have an account? Sign In](#)

## Create a new account

Fill out the required details to set up a new account & access information on the go.

Full Name\*

Unwanted login

Username\*

Unwantedlogin123

Create Password

Unwanted login



Re-enter Password

\*\*\*\*\*

Contact Number\*

 +91 9123455679

I agree to [terms & conditions](#)

SUBMIT

 Your info is secure.

Login by the e-GP system admin for user management

# Screenshots

## Register new eGP System

Enter the following details to register. A sign up email will be sent to the email provided

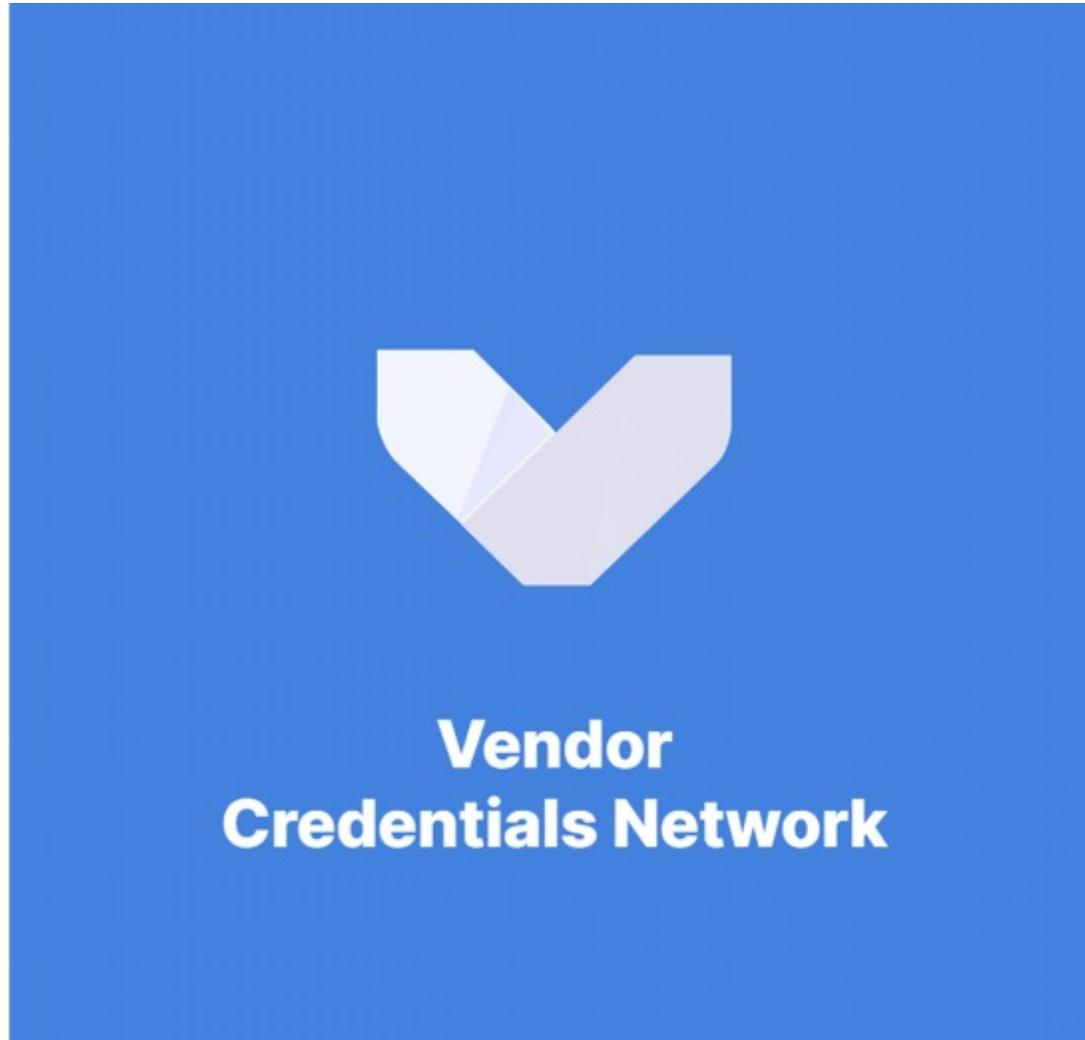
<input type="text" value="Name of eGP System *"/> <small>Org Name</small>	<input type="text" value="URL of the eGP System *"/> 
<input type="text" value="Full name of eGP Rep *"/>	<input type="text" value="Username *"/>
<input type="text" value="Blockchain username *"/> <small>Legible abstraction of account address</small>	<input type="text" value="Email of eGP Rep *"/>
<input type="text" value="Country *"/> India  <small>Please select your country</small>	<input type="text" value="Phone Number *"/>  +91
<input type="text" value="State (Optional)"/>	

 CANCEL

SUBMIT

Register a new e-GP System

# Screenshots



1 View your details      2 Complete the Form      3 Contacts Verification

## Verify the credentials

To change the auto-filled information, contact admin

Vendor Id\*  
vendor4

Vendor Name\*  
Tyre One

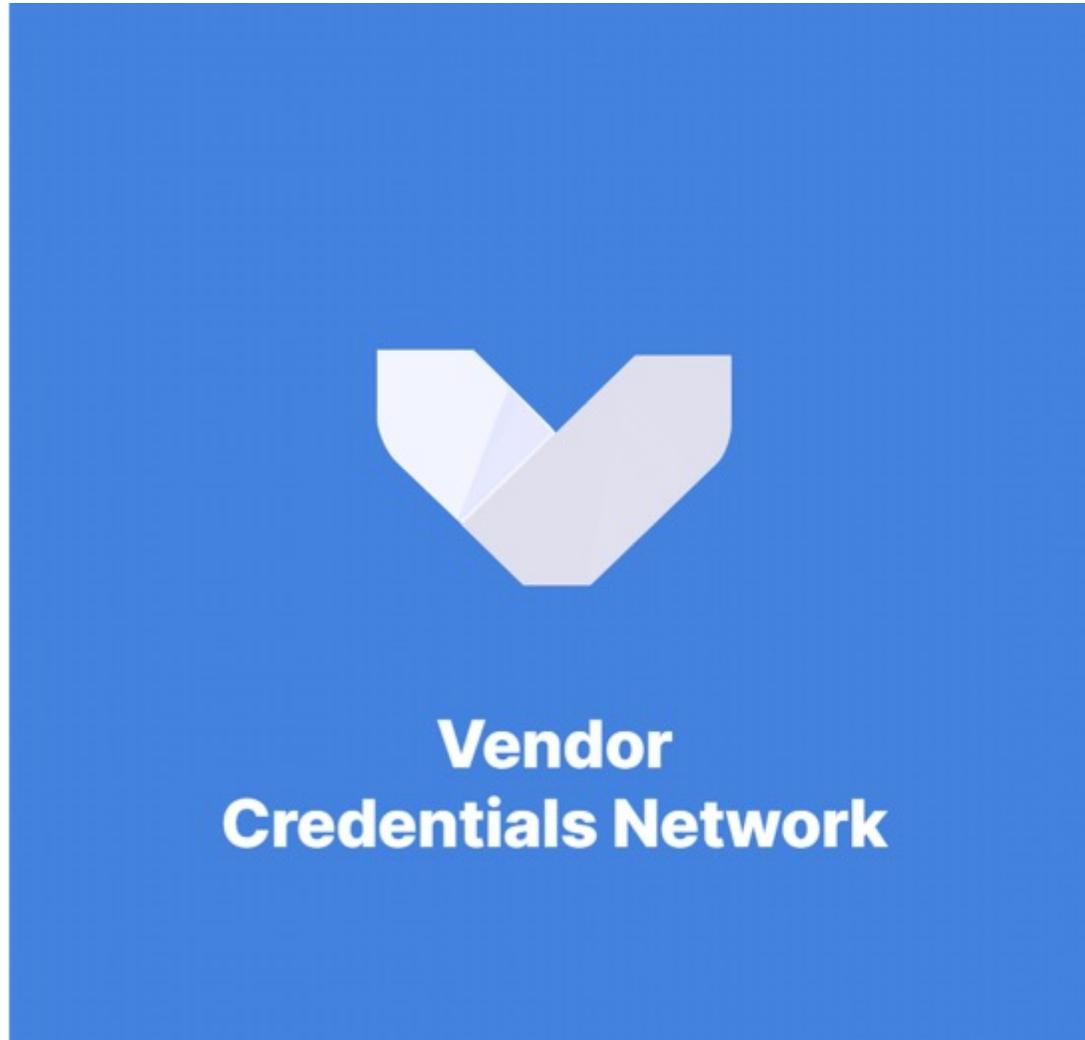
Email\*  
tyreone@gmail.com

Phone Number\*  
+91 9012345678

I agree to [terms & conditions](#)

Vendor Registration

# Screenshots



1 View your details      2 Complete the Form      3 Contacts Verification

## Verify the credentials

To change the auto-filled information, contact admin

Vendor Id\*  
vendor4

Vendor Name\*  
Tyre One

Email\*  
tyreone@gmail.com

Phone Number\*  
+91 9012345678

I agree to [terms & conditions](#)

Vendor Registration

# Screenshots

The screenshot displays the Vendor Credentials Network interface. On the left, a navigation sidebar includes 'Home', 'Merge GIDs' (highlighted), and 'View AoCs'. The main header shows 'Hi, vendor1' with a 'Welcome back!' message, a notification bell with one alert, and the user profile 'VKN GROUP OF COMPANIES Vendor'. A progress bar at the top indicates three completed steps: 'Search GID to Merge', 'Request Merger', and 'Approve Merger'. Below this, a search bar contains 'GIDx045fg'. The main content area is divided into two columns: 'USER INFORMATION' (Vendor initiating merge) and 'REQUESTED BY' (Vendor to be merged with). The 'USER INFORMATION' section shows a profile icon, 'Registered Name: VKN GROUP OF COMPANIES', and 'Registered GID: GID0x56bc2f'. The 'REQUESTED BY' section shows a profile icon, 'Registered Name: DEF CONTRACTORS PVT. LTD', and 'Registered GID: GIDx045fg'. A warning message states: 'Please note that this action will initiate the merger vendor contract history and the initiator's GID will no longer be valid if merger is approved.' At the bottom, there is a 'BACK' button and a 'MERGE REQUEST APPROVED' button.

Vendor Credentials Network

Hi, vendor1  
Welcome back!

VKN GROUP OF COMPANIES  
Vendor

Home

Merge GIDs

View AoCs

Search GID to Merge

Request Merger

Approve Merger

GIDx045fg

**USER INFORMATION**  
Vendor initiating merge

Registered Name  
VKN GROUP OF COMPANIES

Registered GID  
GID0x56bc2f

**REQUESTED BY**  
Vendor to be merged with

Registered Name  
DEF CONTRACTORS PVT. LTD

Registered GID  
GIDx045fg

! Please note that this action will initiate the merger vendor contract history and the initiator's GID will no longer be valid if merger is approved.

BACK

MERGE REQUEST APPROVED

GID Merge Request process flow