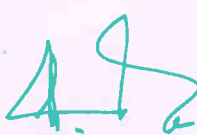
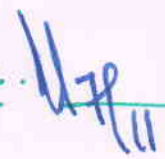


NOTING SHEET

Case File No : 6356/IT/COMN

Sheet No: Three

Subject : WHITELISTING OF KASHTRANSLATE AI

Appt	Contents	Encls
	<p style="text-align: center;"><u>5</u></p> <p><u>Dy GOC</u></p> <ol style="list-style-type: none">1. Pl ref notes ante.2. 'The Kashmiri Language Translator AI based proj' devp by UFSR is recommended to be fwd for whitelisting so as to facilitate its hosting on ADN for wider utilisation in the org. <p style="text-align: right;"> 06/11</p> <p>✓ <u>GOC</u> . Sir, for info pl.</p>	

STATEMENT OF CASE FOR WHITELISTING OF KASHTRANSLATE AI

INTRODUCTION

1. CIF (V) along with its sub formations and units are deployed in Counter Insurgency/Counter Terrorism operations environment in which intelligence is a critical aspect for successful operations. Huge number of transcripts are intercepted in Kashmiri (Koshur) language/dialect in the intercepted communication by the specialized units/ intelligence agencies.

2. KashTranslate AI tool addresses this critical need for accurate and efficient translation of Kashmiri language communications, which are intercepted for intelligence purposes. prevalent, reliance on manual translation processes leads to delays, potential errors and biases, hindering effective analysis.

PURPOSE

3. The KashTranslate AI tool has been developed by CIF(V) Sig Regt with an aim to automate the translation process to obviate prevalent dependence on manual translation by translators/TA pers/ trained manpower. The tool will transform the translation task into an efficient automated process.

BRIEF JUSTIFICATION

4. The bespoke software name KashTranslate AI has been developed with an AI model at the core, coded in the Python language with its hosting using flask server.

5. The specialised units in the organisation deployed in the Kashmir valley receive huge number of Kashmiri transcripts in the intercepted communication which is further translated to analyse, collate and generate the intelligence critical for operations in the active Counter Insurgency/ Counter Terrorism ingested areas.

6. There does not exist a Kashmiri Language (Koshur) translator in the environment that can be utilised to render the task efficient and effective. Thus, leading to manual translation of the transcripts done by translators posted to the units/ TA personnel attached to the units/ manpower trained in the language. The manual translation process is inefficient due to delays, potential errors and biases leading to ineffective analysis.

7. The software KashTranslate AI has been developed with an aim to automate the translation process by utilising Artificial Intelligence at the core to carry out the task, thus obviating the error prone manual translation method. The tool developed provides following advantage to the translation process: -

- (a) **Enhanced Accuracy.** The AI-powered translation engine offers superior accuracy compared to manual translation, minimizing errors and ensuring reliable intelligence outputs.
- (b) **Increased Speed.** Automated translation significantly accelerates the processing of Kashmiri language data, enabling timely analysis and response to critical situations.
- (c) **Reduced Bias.** By eliminating human intervention in the translation process, the tool minimizes the risk of subjective interpretations and biases that can affect intelligence assessments.

(d) **Operational Efficiency.** The software streamlines workflows, reduces reliance on limited linguistic expertise, and frees up valuable human resources for other tasks.

3. The software has been tested and displayed during the Inno-Yoddha 2024 competition and HimTech 2024 (Northern Comd Technical Symposium).

FINANCIAL IMPLICATION

3. The KashTranslate AI has no financial implications involved. The tool has been developed to function as a web-based application in a software-client model.

CONCLUSION

10. The KashTranslate AI is a tool for enhancing the organization's intelligence capabilities. Its implementation will lead to more accurate, timely and objective analysis of Kashmiri language communications, ultimately contributing to more informed decision-making and effective operations. Whitelisting this software is a crucial step towards leveraging technology to overcome linguistic challenges.

11. It is strongly proposed that the software be whitelisted for hosting the server over ADN and standalone for easy and secure access to the stakeholders at all levels.

Station : C/o 56 APO
Date : 09 Oct 2024

UNIT/ SUB UNIT/ ESTB

Recommended/ Not Recommended

A K Pathak
उ.क. प्रि.क.
को. प्रि.क.
को. प्रि.क.
Commanding Officer

DIVISION/ FORCE HEADQUARTERS

Recommended/ Not Recommended

को. प्रि.क.
को. प्रि.क.
को. प्रि.क.
को. प्रि.क.
Commanding Officer



Station : C/o 56 APO
Date : 11 Oct 2024

BtG
Dy GOC
HQ Victor Force

CHECKLIST : PRE APVL STG

Mandatory Details		Description
1.	Name of Proj (incl ver)	Kash Translate AI
2.	Name of Sponsor	CIF (V) Sig Regt
3.	Type of SW (Bespoke/ COTS/ Customised)	Bespoke Software
4.	Brief justification/ endorsement on reqmt for devp of Sw appl.	The AI tool will enhance the organizations intelligence capabilities in the South Kashmir valley. Its impl will lead to more accurate, timely and objective analysis of Kashmiri language communications; ultimately to more informed decision-making and effective operations.
5.	Aim & Scope purpose incl utility, beneficiaries of Sw appl.	To automate the manual translation process of translating Kashur (Kashmir) by specialized units in the organizations.
6.	To be hosted on internet/ ADN with brief justification	The software is recom to be dply over ADN and standalone for usage by various specialized units in South Kashmir Valley.
7.	Being devp in house or through IT funds	Devp In-house
8.	Usability of proposed appls by other arms/ services/ org/ est.	The software once whitelisted will be utilized by units dply in South Kashmir Valley to effectively overcome linguistic barrier towards int generation.
9.	Hw and IT infrastructure regd.	Windows Server 2019 Standard Processor : RAM : 8 GB GPU : 4 GB HDD : 1 TB OS Type : 64 bit OS
10.	Brief details of content of the proposed Sw appl.	The software is an AI model based tool to translate Kashmiri text into English text.
11.	Endorsement by Head of Br/ Svc/ Fmn	The requirement of the software has been duly endorsed.
12.	Details of user base	The user base will include all unit dply in South Kashmir Valley.
Addl Details (Optional in Pre Apvl Stg : Mandatory in Post Apvl Stg)		
13.	Envisaged cost of entire proj incl license fees and maint	Nil
14.	Projected dt of completion incl maj timelines	The software has been fully devp

Ser No	Mandatory Details	Description
15.	Brief details of Sw platform and tech stack proposed for devp of appl incl op sys dependencies (if any)	Windows Server 2019, Python, Tensor Flow and Flask.
16.	Brief details of proposed network and bandwidth reqmt.	The network proposed is ADN and standalone utilization.
17.	Brief details of OS & sys software reqmt.	Ser No 9 and Ser No 15.
18.	Brief details of proposed data security measures incl backup of data.	No data is saved in the software and the entire translation is directly exported to the user for utilizing it as per the classification of the data.
19.	Brief details of proposed Database Engine to be used in the appln.	No Database Engine is utilised.
20.	Details of Sw architecture and COTS Sw proposed to be utilised.	The details of software and COTS modules is mentioned at ser No 15.
21.	Details of proposed architecture-centralised/ Federated/ Hybrid.	The proposed architecture is Central and Hybrid as per dply reqmt.
22.	Brief details of proposed utilization of public key infra (PKI) and iden and Access Mgt (IAM)	Nil
23.	Technology dependencies (if any)	Ser No 15.
24.	Database reqmt	Nil
25.	Enhancement/ upgradation (incl patch mgt/ Sw updt procedure and mechanism)	Centrally managed.
26.	Details of licensing (if any)	Nil