CHECKLIST: PRE APVL STG

Ser No	Mandatory Details	
1.	Name of proj (incl ver).	Ashwa-Base Monitoring & Mgt Sys
2.	Name of sponsor	Brig Joe Sabby, Cdr, HQ 11 Sect RR
3.	Type of Sw (Bespoke/COTS/Customized)	Bespoke
4.	Brief justification/ endorsement on reqmt for devp of Sw appl.	Annual Migration and Reverse Migration of Gujjars and Bakkarwals into the higher reaches of the UT has been a matter of concern for the Indian Army because of historic instances of mov of trts and tn of WLS from the Dists of Samba, Kathua, Jammu and Reasi into the Kashmir Valley using sp of these shepherds in groups called Deras. These Deras also act as imp sources of int in case positively engaged by the Indian Army. Till 2022 migration season, the recording of Dera mov was being carried out on a standalone and geographically isolated mode. The process had fwg inherent limitations: - (a) Lack of std process and duplication efforts (b) Absence of centralised database. (c) Non availability of any mov tracking mechanism, data analytics.
5.	Aim & Scope Purpose incl utility, beneficiaries and tgt users	**Aim** :- To automate the process of dera monitoring and to address the above limitations mentioned. **Scope** :- (a) Standardisation and Automation of the entire process. (b) Availability of integrated centralised Database for common ref. (c) Geo Tagging, tracking and monitoring of Dera Mov on the Map across fmn bdys (d) BI and analytical capabilities. (e) The process inherently imposes a caution on the Dera to dissociate from sp ANE activity. Also, with a feedback mechanism built into the Database, genuine concerns can be populated and need – based Sadbhavana and PM activities can be organised. **Beneficiaries & tgt users.** The Database also populates Address and Contact detls. These can also be used to engage with this migratory population at their homebases in non-Migratory season, thereby reinforcing the All Weather relationship between the Army and the Migratory Population.
6.	To be hosted in internet/ADN with brief justification.	Internet. Proj is based on Web Appl which will be carried by ptl ldrs.

7.	Being devp in house or through IT funds.	Outsourced.
8.	Usability of proposed appls by other arms/services/org/est	Proposed to be dply PAN - Northern Comd.
9.	Hw and IT infrastructure reqd.	To be hosted on NIC Cloud.
10.	Brief details of content of the proposed Sw appl.	The app follows a client-server architecture, where the client component is the mobile application & admin panel itself, and the server component handles data storage, processing etc. The app's architecture consists of the fwg key components: (a) **Frontend**. The frontend consists of the web appl which is built using the React Native & React JS technology . (b) **Backend.** The backend component manages data storage, business logic and user authentication. (c) **Database**. The app uses MongoDB to store relevant data.
11.	Endorsement by Head of Br/Svc/Fmn.	The appln was demo in "Transformation Through Data" in Dhruva Data Analytics Coemption -2023 and as per Army Cdr, HQ NC ordered to dply it PAN NC.
12.	Details of user base.	Units of Northern Command which are involve in Gujjar Bakkarwal monitoring and mgt for Int and IW purpose.

Addl Details (Optional in Pre Apvl Stg: Mandatory in Post Apvl Stg)		
13.	Envisaged cost of entire proj incl license fees and maint.	10 Lakhs (appx)
14.	Projected dt of completion incl maj timelines.	Within 3 Month
15.	Brief details of Sw platform and tech stack proposed for devp of appl incl op sys dependencies (if any)	The app follows a client-server architecture, where the client component is the mobile application & admin panel itself, and the server component handles data storage, processing etc. The app's architecture consists of the fwg key component (a) **Frontend**. The frontend consists of the web appl built using the React JS & React Native technology. (b) **Backend.** The backend component manages data storage, business logic and user authentication. (c) **Database**. The app uses MongoDB to store relevant data.
16.	Brief details of proposed network and bandwidth reqmts.	To be dply over NIC Cloud.
17.	Brief details of OS & Sys software reqmts.	Ubuntu & MongoDB.
18.	Brief details of proposed data security measures incl backup of data.	MAC binding of devices & regular data backup.
19.	Brief Details of proposed database Engine To be Used in The Appl.	MongoDB.
20.	Details of Sw architecture and COTS Sw proposed to be utilised.	Customized web Appl.
21.	Dets of proposed architecture - Centralised/ Feederated/Hybrid.	Centralised.
22.	Brief details of proposed utilisation of Publilc Key Infra (PKI) and Iden and Access Mgt (IAM)	Role based access control.
23.	Technology dependencies (if any).	-
24.	Database reqmts	MongoDB
25.	Enhancement/upgradation (incl patch/Sw updt procedure and mechanism details of licensing (if any)	As & when reqd.