Tele No: 39584

B/05353/STC/Auto/IT/Info Sys

07 Nov 2024

IHQ OF MOD (ARMY): DTE GEN OF INFO SYS

MINS OF 3RD STEERING TECH COMMITTEE (STC) MTG ON AUTO/ DIGITISATION/ SERVICE SPECIFIC & JT APPLS - STC (AUTO) HELD AT DGIS ON 17 OCT 2024

- 1. Ref DCOAS (IS & C) Sectt Note No 57926/ICT/DCOAS (IS & C) Sectt/IS dt 07 Sep 2021.
- 2. The 3rd STC (Auto) mtg was held on 17 Oct 2024 at DGIS Conf Hall. The mtg was chaired by Lt Gen Rajiv Kumar Sahni, VSM, PhD, DG Info Sys. Fwg were present during the mtg:-

(a) Members.

- (i) Maj Gen AK Jha, ADG IS, DGIS.
- (ii) Maj Gen MP Tejinder Kumar, ADG T, DG Sigs.
- (iii) Brig Rajesh Sihag, Brig Concepts, DGIS.
- (iv) Brig Maneesh Joshi, Brig IT, DGIS.
- (v) Brig JN Bhatt, VSM, Cdr ACG.
- (vi) Col Manoj Singh Silot, Col (Sigs & EW), ADG ADB.
- (vii) Lt Col Dhiraj Murari, GSO-1 (SI), DGMO.

(b) <u>Invitees/ Other Attendees</u>.

- (i) Brig SP Singh, CE, UB Area.
- (ii) Col Sonu Siddharthan, SM, CO, 214 Rkt Regt.
- (iii) Col Pawan Kumar, 312 Fd Wksp.
- (iv) Lt Col Abhimanyu Mahajan, EME Br, HQ SWC.
- (v) Capt S Chaturvedi, 426 (I) Fd Coy.
- (vi) Brig SP Sharma, Brig Med (IT), DGMS (Army).
- (vii) Col VS Salaria, Col AC-6, DG Armd Corps.
- (viii) Col Varun Arora, Dy Comdt, ILM Kamptee.
- (ix) Col S Vengatesan, VSM, Comdt, ASDC, DGIS.
- (x) Col Vivek Sharma, Col CPW, ACG.
- (xi) Lt Col Abhishek Sharma, AQMG CS, CS Dte, QMG Br.
- (xii) Lt Col Vaibhav Joshi, Sr Intptr, MI-17, DGMI.
- (xiii) Lt Col Pawan Kumar, 312 Fd Wksp.
- (xiv) Lt Col Jasjeet Singh, GSO-1, ASDC, DGIS.
- (xv) Maj MS Krishna, IO, IHQ Int Bn.

- Through VC.

3. The agenda pts discussed and decisions taken are given below:-

<u>Ser</u> No	Agenda Pt	Decision/ Dscn	Resp
(a)	Google Earth Pro Sw (For 1 Corps & 14	(i) Committee dir the fwg:-	HQ 72
	<u>Corps</u>)	(22) Cranas ta	Arty Bde/
	(i) Backgrnd. 'Google Earth Pro Sw' is a hy visualisation Sw which provides open digital topographical data and display as per mil co-ord sys along with multiple overlay of 3D trn, Def Series Maps (DSMs), satl imagery, contours & tgt info encompassing an exhaustive database of critical data overlays of Rd Nw, Mil Camps, IMINT, ISUMs, RPA reports, etc. Google Earth Pro Sw can be config for making of Strat Strikers 3D Artigeo Sw & Strat Strikers 3D Strike Mapper Sw. It is based on a standalone sys wherein one time high definition 3D cache of sect is prep and uploaded for offline usage, which will sustain upto two yrs and thus no online connectivity is reqd. (ii) The same shall empower OPs, Gun End and cells at sensor to shooter comp post with adv 3D geospatial capb which enhances precision shooting, tgt analysis, wpn to tgt matching and sit awareness in the ops (HQ 72 Arty Bde is the nodal agency for Sw devp). (iii) Type of Sw. Customised (Hy 3D visualisation Sw).	(aa) Sponsor to coord with DGIS & DG Sigs for analysing the similar features & functionalities offered by existing appls viz SAMA, eSITREP, ACCCS Sw ver 7.2 & SENA MAPS. Post the analysis, if the reqmts of the sponsor are not met, the agenda may be fielded for consideration of 4th STC (Auto) Mtg. (ab) Sponsor was dir to liaise with ACG in the interim pd to iden the best prac in terms of security for better expl of 'Google Earth Pro Sw'.	HQ NC,
	(v) <u>Dply Scenario</u> . Standalone.		
(b)	Devp of Eqpt Diagnostics & Repair Assistant (i) Backgrnd. The devp of an efficient soln to empower Grade 2 tech enabling them to perform complex eqpt diagnostics and repair tasks independently without the guidance of Master Tech is an op necessity in view of the role of MSC (E). At present, Grade 2	(i) Committee dir the sponsor to field the agenda pt for consideration of 4 th STC (Auto) Mtg post undertaking fwg actions:- (aa) Carry out holistic Sw Design Review (SDR) for devp of a desktop ver of the appls	312 Fd Wksp Coy/ HQ EC GS, (Sys)
	tech depend on the guidance of higher- grade tech during complex repair tasks. Task assigned to MSC (E) mandates techs to op independently as FRTs during ops.	incl storage aspects in conslt with AHCC & DG Sigs.	

<u>Ser</u>	Agenda Pt	Decision/ Dscn	Resp
<u>No</u>		(1) 2	
	The same may lead to time consuming diagnostics and incr MTTR adversely affecting eqpt recycling cabp. The ltd avbl of Master Tech coupled with the op reqmt to Op independently can be mitigated through devp of Al powered sys enabling Grade 2 tech to operate efficiency with help of repair assistant ensuring faster diagnosis and min MTTR during repair tasks.	(ab) Coord with DG EME, for vetting the reqmt & preventing dupl of appl if any.	
	 (ii) Purpose. The devp of eqpt diagnostics and repair assistant aims to bridge the gap amongst theory and practice through AI based virtual guidance. The envisaged Sw would interactive troubleshooting, along with step-by-step repair instrs for earmarked eqpt. It would also allow access to a comprehensive knowledge base of technical manuals through a cross platform Sw which would Op in standalone offline mode instI on windows based PC/Laptops. (iii) Type of Sw. Customised. (iv) Cost. ₹ 2,50,000/- (Approx). 		
	(v) <u>Dply Scenario</u> . Standalone.		
(c)	Integ of eNAR & Surveyakshak	(i) Committee dir the	426 (I)
(6)	(i) Brief. The present Sw for digitisation of e-NAR has certain inherent limitations. The Sw is compatible only on sys containing Windows 8 OS or lower. It requires manual entry of data of each asset. The Sw does not permit data analysis and also the data on standalone PC can't be shared on ADN. Surveyakshak Sw and data held with the fmn does not have Op wks assets marked and updt record for analysis at higher fmn level incl visualisation wrt trn. Presently e-NAR docu is maint in excel format where in all Op wks assets details are compiled. Surveykshak platform is used separately to visualise & plot various assets & locs etc on maps for ready ref & ease of plg. However, there is no integ Sw which can have auto sys to map assets from e-NAR	sponsor to liaise & coord with PMO CIDSS/ DGIS for expl SAMA appl for integ of eNAR data, as the appl is hosted on ADN & provides better GIS features & functionalities than Surveykshak. The sponsor was also dir by the Committee to obtain inputs/ comments of E-in-C Br wrt expl of IGIST as platform for eNAR integ in case felt need of devp still exists. (ii) Chairman highlighted the imp of convergence of appls devp/ under devp to an enterprise appl having similar features & functionalities, providing holistic solns to max	HQ CC (Engr Br)

<u>Ser</u>	Agenda Pt	Decision/ Dscn	Resp
<u>No</u>	to Surveykshak platform. Hence, to assist ease of mapping and assist Cdrs at all levels for immaculate infra plg and decision making during HW scenario wrt loc of permt def & mov of tps, there is an inescapable reqmt of devp of Sw. (ii) Purpose. The Sw platform is planned to be devp in collaboration with BISAG-N, Ahmedabad. The features inclinteg module to plot e-NAR data on Surveykshak with other addl alteration, addn and mapping tools. Additionally, it will also have accessibility rts defined at all levels for updt & monitoring purpose. The Sw thus devp will cater for op necessity of	use cases of the envt. This will ensure an inclusive & comprehensive apch towards Sw appl devp & avoid dupl of efforts & resources.	
	all user units and provide accurate data for siting, maint analysis and report genr. The Sw planned will be ADN compatible to ensure data security, facilitate higher HQs to analyse, visualise and corroborate info wrt op assets at higher level. All engr units as well fmn HQ at all levels can utilise this Sw to analyse infra devp plg as well as op plg & subsequently assist in decision making. (iii) Type of Sw. Customised. (iv) Cost. Nil (In-house devp).		
	(iv) <u>Cost</u>. Nil (In-house devp).(v) <u>Dply Scenario</u>. ADN.		
(d)	Sapta Shakti Samiksha (i) Purpose. To provide readiness state of eqpt to fmn Cdrs and various Br heads of Comd HQ, a eqpt readiness dashbd has been prep using a Microsoft Power BI tool, (whitelisted Sw appl) and a web page has been designed for updt of excel sheets by fmn EMEs, linked as a backend data to the front end visualiser Power BI tool through ADN using Comd server. (ii) Type of Sw. Customised. (iii) Cost. Nil (In-house devp).	 (i) Committee dir the sponsor to liaise & coord with MISO/ DGIS for creation of addl fds as per reqmt in three months. In the interim pd the Sw may be utilised by the sponsor. (ii) IPA was accorded for three months & the sponsor was dir to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'. 	HQ SWC (EME Br)

<u>Ser</u> No	Agenda Pt	<u>Decision/ Dscn</u>	Resp
	(iv) <u>Dply Scenario</u> . Hosted on ADN to enable all end point users to utilise the web appl.		
(e)	Terrorist Database Mgt Sys (TDBMS) ver 1.0 (i) Backgrnd. The int genr through various agencies in the valley is in raw form and analysis of same is resource intensive. An effort is reqd on digitization of this raw data and maint institutional memory of ops in the valley. (ii) Purpose. To maint a centralised record of all the trts related activities in AoR like status (killed/ active/apprehended), tanzeem, associates and other info for better assimilation, plg and exec of ops by cdrs at all levels. (iii) Type of Sw. Bespoke. (iv) Cost. Nil (In-house devp). (v) Dply Scenario. ADN.	` '	CIF (V) Sig Regt HQ CIF (V)
(f)	Dragon Naturally Speaking Sw for Instt of Mil Law (i) Backgrnd. The Sw is a speech to text Sw facilitating conversion of spoken language into text in real time and allows users to dictate texts. The Sw integ well with the popular legal case mgt Sw as well as MS word, Case Mgt Sys and other legal docu. (ii) Purpose. The Sw would be utilised in recording the statements of witnesses and transactions of C of I and S of E proceedings. It would also facilitate the Judge Advocate in recording the Court Martial proceedings.	` '	IML, KAMPTEE

<u>Ser</u> No	Agenda Pt	<u>Decision/ Dscn</u>	Resp
110	(iii) <u>Type of Sw</u> . Customised.		
	(iv) <u>Cost</u> . ₹ 80,000/- per license.		
	(v) <u>Dply Scenario</u> . ADN.		
(g)	Proposal of Complete Dhanwantri Sw Ver 3.0 incl Clinical Modules	(i) Committee gtd IPA for hosting Dhanwantri Sw	PMO HIS / DGMS (A)
	(i) <u>Backgrnd</u>	ver 3.0 on ADN subject to completion of fwg actions by sponsor:-	DOMO (A)
	(aa) The Dhanwantri (Dashbd Module) has been hosted on the ADN since Dec 2023. All the 113 MHs are uploading patient data on a daily basis extracted from existing Dhanwantri Sw Ver 2.3.	(aa) Review the reqmt of storage capacity & other imp aspects related to dply on ADN.	
	(ab) IPA accorded for upgradation and mod of Dhanwantri Appl in 12 th OAC mtg on 18 Aug 22.	(ab) Testing of complete Sw on localised Nw before hosting the Sw on ADN.	
	(ac) After due deliberation on the appl, DCOAS (IS&C) directed that the appl demands a holistic apch for achieving better results on patient records. In order to achieve this goal, it was dir to take up case of hosting entire Dhanwantri Appl incl the clinical modules on ADN.	(ii) Committee dir the sponsor to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'.	
	(ii) Subsequently, the case was taken up with ACG to carry out necessary remote testing of Dhanwantri Clinical Modules in order for complete Dhanwantri Sw Ver 3.0 to be hosted on ADN. The ACG requested to obtain fresh IPA for Dhanwantri Sw ver 3.0 (Clinical Module) to be hosted on ADN.		
	(iii) It is recom that case may be discussed during 3 rd STC (Auto) for grant of IPA.		
(h)	(i) <u>Backgrnd</u> . A total of 41 qual of various National Skill Qual Framework (NSQF) levels have been prep and adopted by AC Dte as awarding body. All these 41 qual are reqd to be assessed incl project, practical and viva for assessment	(i) IPA was accorded for devp of the appl, as per felt need of the user & expl of same by other Dtes may be explored for awarding similar certificates. However, for finalising dply scenario, the Committee dir the sponsor to	

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<u>Ser</u> <u>No</u>	<u>Agenda Pt</u>	<u>Decision/ Dscn</u>	<u>Resp</u>
	of each qual, to award skill cert. The whole process presently in phy mode apart from being time consuming demands a lot on resources. The skill cert assessment Sw will help in auto the assessment for award of skill cert to AC pers under proj KAUSHALVEER. (ii) Purpose. The skill cert assessment Sw will auto the conduct of skill cert assessment leading to eco of effort, manpower and resources. (iii) Type of Sw. Web Appl. (iv) Cost. Nil (In-house devp). (v) Dply Scenario. ADN.	mov the case on file for comments/ inputs from stakeholders. (ii) Committee dir the sponsor to follow the guidelines in 'SoP on Whitelisting of Appls'.	
(j)	WISER - Web Interface for Searching En Int Opr Records (i) Backgrnd. IA is facing ever evolving Counter Int threats wherein Pak Int Operatives (PIOs) continue to expl the latest tech & ever-changing modus operandi to tgt IA pers & their families. The inimical efforts at tgt of security pers using Social Media (SM) & Instant Messaging (IM) platforms have witnessed a substantial incr in the recent past. (ii) Purpose. The appl aims to digitise and provide a pan Army interface hosted on ADN for searching and submitting suspicious mob No or SM accts tgt serving pers. It also ensures timely initiation of actions at the user end and provides leads to the auth agency for further inv. Beneficiaries & tgt users will incl all serving IA pers & auth agency, i.e. IHQ of MoD (Army) Int Bn. (iii) Type of Sw. Bespoke. (iv) Cost. Nil (In-house devp). (v) Dply Scenario. ADN (DGMI Portal).	(i) Committee dir the sponsor to re-assess the dply scenario for ease of accessibility to users. The sponsor was also dir to liaise & coord with the Concepts Sec/DGIS to assess the PIO Contact Checker Module avbl in ARMAAN appl providing similar functionalities. (ii) Committee dir the sponsor to mov the case on file, in case PIO Contact Checker module of ARMAAN appl does not meet the reqmt of sponsor.	MoD

<u>Ser</u> No	Agenda Pt	<u>Decision/ Dscn</u>	Resp
(k)	(i) Backgrnd. Websites/ appls are recd at ACG for cybersecurity vetting in consonance with ACSP 2023 and SoP on Whitelisting of websites and web appls in IA. Off late, it has been obs that during the appl devp ph, focus of the developer/ sponsor remains on the usability and functionality, thus appl security takes a backseat. As a result, security vulnerabilities are discovered at a very later stg which delays the overall process of appl whitelisting. Several initiatives in form of hosting of web vulnerability scanner on ACG website, advisories on secure coding pracs using HCL Code sweep plugin, user reqmt docu etc have been issued however adherence to these has not been very encouraging and repeatedly appls emp insecure coding prac. In order to encourage DevSecOps in IA, onboarding of the developer/ sponsor is the most significant reqmt. (ii) Proposal. It is felt that a developer centric security vetting apch is reqd in order to optimise the vetting duration. It is therefore, proposed to provn facility of security vetting to all developers on ADN to encourage secure coding pracs in the Army. It is proposed to dply a centralised server based appl scanner that shall be made avbl to sponsors on reqn basis to test respective appls at devp stg. (iii) Name of Sw. HCL App Scan (Local License Server). (iv) Type of Sw. COTS. (v) Cost. ₹ 2.0 Cr (four floating user Licenses).	4 th STC (Auto) Mtg post deliberations with ASDC/DGIS.	ACG

<u>Ser</u> No	Agenda Pt	<u>Decision/ Dscn</u>	<u>Resp</u>
(1)	(i) Backgrnd. The present method of obtaining user feedback is through Comd channel which is time consuming. A need has been felt to incorporate user feedback in a more accessible manual through a simple survey from hosted on ADN. This will enable Canteen Service Dte to address the user aspirations in a better manner. (ii) Type of Sw. COTS. (iii) Cost. Nil (In-house devp). (iv) Dply Scenario. ADN.	(i) Committee dir the sponsor to liaise & coord with DG Sigs for incl of module/ form of svy in ADN based Next Cloud appl under devp. Committee gtd IPA for the appl till the time the module/ form for svy is enabled on Next Cloud & is dply on ADN. (ii) Committee dir the sponsor to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'.	Brig Canteen/ QMG Br
(m)	Whitelisting of QGIS (For DGMI and all Fmn IITs) (i) Backgrnd. The open source Sw facilitates all Fmn IITs of IA for analysis of satl and ae imageries. The Sw has been in use by DGMI and all IITs since 2018/19. The open source Sw is being utilised in standalone mode. (ii) Type of Sw. Open Source. (iii) Cost. Nil (In-house devp). (iv) Dply Scenario. Standalone.	 (i) Committee gtd waiver for op expl of the Sw for a pd of one yr & dir the sponsor to liaise & coord with DDGIT/DGIS for inclusion of the Sw in list of whitelisted appls. Committee dir the sponsor to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'. (ii) Committee highlighted the op necessity of migration of all info sys to IGIST in a time bound manner. Committee assured sp of DGMO to promulgate dirns for conduct of centralised trg on IGIST for IIT reps of fmns pan IA. 	DGMI
(n)	Whitelisting of Global Mapper (For DGMI and all Fmn IITs) (i) Backgrnd. COTS Sw facilitates all Fmn IITs of IA for easy interpertation and analysis of satl & ae imageries. The Sw has been in use by MI Dte and all IITs since 2018/19. Sw has user friendly tools like pansharpening, easy export of raster vector to multiple useful formats, batch conversion and 3D view. (ii) Type of Sw. Open Source.	(i) Committee gtd waiver for op expl of the Sw for a pd of one yr & dir the sponsor to liaise & coord with DDGIT/DGIS for inclusion of the Sw in list of whitelisted appls. Committee dir the sponsor to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'. (ii) Committee highlighted the op necessity of migration of all info sys to IGIST in a time	DGMI

Sor	Agenda Pt	Decision/ Dscn	Posn
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	(iii) <u>Cost</u>. ₹ 60,000/ License.(iv) <u>Dply Scenario</u>. Standalone.	bound manner. Committee assured sp of DGMO to promulgate dirns for conduct of centralised trg on IGIST for IIT reps of fmns pan IA.	
(0)	Reusability of Whitelisted Code for Static Websites (i) Backgrnd. Options avlb for devp of static website in IA are as under:- (aa) Outsourcing. (ab) In-house devp. (ac) Reusing the code of existing whitelisted website. (ii) Proposal. As the format of static websites on ADN is standardised, further websites can be devp by reusing code from whitelisted ones. Therefore, it is proposed that in these cases, the clone of whitelisted website be provided by AHCC/DG Sigs on ADN and only the content be updated as per reqmt. Once the content is updated, access of VDI be granted directly to ACG for remote testing followed by content vetting by DGMI/MI-11. In order to address the challenges of obsolete components, an undertaking will be given to ACG at the time of remote testing highlighting the vers of building blocks of website. (iii) Benefits Accrued. (aa) No phy mov of VDIs (Avg 25 to 35 GB Virtual Machine). (ab) Hosting time on ADN reduced to days vis-a-vis months. (ac) Less resource extensive. (ad) Re-usability of vetted code. (ae) Saving to exchequer. (iv) Recom. Direct remote testing by ACG be undertaken post IPA, once the devp agency reuses the whitelisted code.	(i) Committee gtd IPA for whitelisting of 'Reusability of Whitelisted Code for Static Websites' which are already vetted & hosted on ADN. Committee dir to adopt fwg methodology:- (aa) On receipt of IPA from STC (Auto) clone of already vetted static website to be provided by AHCC on ADN to ASDC. (ab) Necessary updt will be carried out by devp agency on ADN. (ac) Existing whitelisting procedure to be followed by all the stakeholders. (ad) No physical mov of VDI to take place during the above mentioned stages/ procedure. (ii) Committee dir the sponsor to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'.	ASDC/ DGIS

<u>Ser</u> No	Agenda Pt	Decision/ Dscn	Resp
(p)	e-Vigilance Cell (i) Backgrnd. Vigilance is the newly raised Dte in the IA which handles extremely sensitive cases. Presently, the process of handling and analysis of the complaints is manual which leads to inherent delay of severe implications on the outcome of time critical cases. There is a reqmt of creation of e-Vigilance Cell which entails proc of latest Sw & associated Hw.	Committee recom the agenda pt for the consideration of forthcoming ETC mtg.	
	 (ii) Purpose (aa) Data Storage & analysis. (ab) Data Monitoring. (ii) Type of Sw. COTS. (iii) Cost. ₹ 2.15 Cr. (iv) Dply Scenario. Standalone. 		
(q)	Sena Vasundhara Abhilekhan Pranali (SVARA) (i) Purpose. Sena Vasundhara Abhilekh Pranali (SVARA) sponsored by HQ Madhya Bharat Area is an appl to devp hierarchical accessed, GIS enabled, secured comprehensive portal to auto the land assets docu/ process (with digital archival facility) with Data analysis capb and facilitate and digital repository of assets. (ii) Scope. As integ of data held by the DGDE and the LMA can only be possible if data is digitised in the comprehensive data structure. A prominent scope to devp a comprehensive portal which can provide transparency in accessing e-records, accord hierarchical wk flow, aid GIS sp land tagging and impl 'Single Truth' analogy. (ii) Type of Sw. Customised Sw in coordination with BISAG-N. (iii) Cost. Nil. (iv) Dply Scenario. ADN.	(i) Committee gtd IPA for devp of 'Sena Vasundhara Abhilekhan Pranali (SVARA)'. (ii) Committee dir the sponsor to follow the guidelines as mentioned in 'SoP on Whitelisting of Appls'.	HQ MB Area

<u>Ser</u> No	Agenda Pt	<u>Decision/ Dscn</u>	Resp
Info	<u>Pt</u>	,	
(r)	Use of 'Portal for Appl Whitelisting' (PAW)	(i) Committee dir that all the projs of IA wrt whitelisting will only be processed through PAW appl as per 'SoP on Whitelisting of Sw Appls'. The detls wrt all projs to be updt/ uploaded with entire corres, auth or refs in PAW. (ii) Prior to the dscn on the agenda pt in the Steering Committee, all the stakeholders to ref & updt the status of each proj in PAW. Any dscn or ref will be based on the responses in PAW. (iii) Committee highlighted that expl of PAW will ensure adequate monitoring, accountability & transparency in devp of Sw appls. (iv) Committee dir that phy mov of files will not be accepted henceforth.	

4. For necessary action pl.

(Jageshwar Gauniyal)

Lt Col

GSO-1 (Plg)

for Chairman STC

ADG MO (IW) ADG T, DG Sigs ADG ADB

DGMO (MO-12) DG Sigs (Sigs-7) ACG

HQ 72 Arty Bde HQ NC, GS (Sys) 312 Fd Wksp Coy

HQ EC GS, (Sys) 426 (I) Fd Coy HQ CC (Engr Br)

HQ SWC (EME Br) CIF (V) Sig Regt HQ CIF (V)

IML, KAMPTEE PMO HIS / DGMS (A) DG AC (AC-6)

IHQ of MoD (Army) Int BnCS Dte (Brig Canteen)QMG BrDGMI (MI-20)DGMI (MI-17)ADG Vigilance

HQ MB Area

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