AUTOMATED AI ENABLED PROCTORING SW

1   **Short Brief and Functional Purpose of the S/W Being Devp**.

    (a)   **Background**.

        (i)   Exam Sec (erstwhile DGMT (MT-2) is resp for policy and conduct of Promotion and Competitive Exams, besides being the policy holder for Promotion Exams for JCOs/NCOs.

        (ii)   Junior Ldr Proficiency Test (JLPT) for JCOs of IA has already migrated to online platform since yr 2023. ACC/SCO/SL Entrance, LGSC, Re-mustering of PA & Diploma of Engineering Entrance Exams will migrate to online format in yr 2024. The above migration will be followed by balance internal exams in IA in a phased manner, marking transformative step towards digitisation.

        (iii)   Online Exams are now in the process of acceptance and expansion. The next transformation in the realm of Online Exams in IA is envisaged to be the flexible format of exams. Such a format would facilitate appearances by candidates in a block period; doing away with the concept of exam on fixed dates, exam centres and reqmt of invigilation staff to a large extent. However, realisation of this envisaged change in the format of exams is contingent upon a suitable Online Proctoring SW. Pertinently, such SWs are subscription based, and incur high & recurring cost and are internet dependent, making availability of our own such SW with IA a prerequisite.

    (b)   **Present System**. Presently, online exams are conducted at designated exam centres. The invigilating staff and assisting staff is detailed by conducting fmns for each exam centre. Candidates from out stns (not having online exam centre) mov to these designated centres for appearing in the exam.

    (c)   **Advantages**. Online Proctoring will accrue fwg advantages:-

        (i)   **Accessibility**. It will enable candidates to appear for exams from their units/fmns, thus obviating mov of candidates to distant exam centres, besides eliminating the need for establishing online exam centres itself.

        (ii)   **Adm Arngs**. Adm arngs to incl detailing of invigilating, adm staff, prep of exam venue etc will be reduced, ensuring incr availability of manpower resources to the envt.

        (iii)   **Scheduling**. Candidates will have the flexibility of appearing in the exam as per choice, thus facilitating optimal balance by the candidate in exam prep and org reqmt.

        (iv)   **Recording**. Proctoring SWs will provide facility of recording all events, which can be accessed for forensics in case reqd at a later stg.

        (v)   **Savings to Exchequer**. Candidates and exam centre staff will not be reqd to mov to exam centres, ensuring enormous saving of the recurring expenditure on conduct of physical exams.

2. **Specific Details wrt SW Proposed to Be Devp**.

    (a)   **SW ID/ Name (incl ver number)**. Automated AI Proctoring SW.

    (b)   **Est/ Sponser (Comd) (incl details of PDMG)**. The project is sponsored by HQ ARTRAC.

    (c)   **Type of SW (Bespoke/ ERP/ COTS/ Customized)**. Bespoke.

    (d)   **Purpose/ Utility (incl beneficiaries and tgt users)**. Same as mentioned at Para 1 above.

    (e)   **Name of Devp Org/ Vendors Name and Contact Details**. DGIS.

    (f)   **Is IPR Held with Sponsor**. NA, being in house.

    (g)   **Is the SW Already Cleared/ Approved By ACG**. No.

    (h)   **OS and Sys SW Reqmts**. The SW is recommended to be hosted on a server running on Ubuntu OS.

    (j)   **Language/ Platform of SW Devp & Dply**. Spring Framework, JAVA.

    (k)   **Database Reqmts (SW, Ver, etc)**. Postgres SQL Ver 12.

    (l)   **Technology Dependency (if any)**. Nil.

    (m)   **Cost Incl Annual Maint Contract**. NA.

    (n)   **Architecture for for Dply (Centralised/ Federated/ Hybrid/ Etc)**. Hybrid.

    (o)   **Details of Licensing (if any)**. NA.

    (p)   **HW/Server Specifications (if any)**. SW to be hosted on existing Data Centres.

    (q)   **Enhancements/ Upgradation (incl patch mgt/ SW Updt Procedure and Mechanism)**. Qtrly/ On - occurrence.

    (r)   **Recommendations, Spl Instr and Reqmts (if any)**. NA.

3.   **Intended Usage and Dply - Standalone/ LAN/ ADN/ Internet/ CWN**. The SW is proposed to be hosted on ADN for usage of users pan IA.