

MEMORANDUM OF UNDERSTANDING

**Between Police Reforms Cell Madhya Pradesh and DEVI AHILYA VISHWAVIDYALAYA,
INDORE**

This Memorandum of Understanding (MOU) on **3rd August, 2018** by and between (DEVI AHILYA VISHWAVIDYALAYA, INDORE) situated at Indore, Madhya Pradesh, and **Police Reforms Madhya Pradesh Bhopal** (A Government of M.P. Organization)

1. Scope of the MOU

This MOU details the modalities and general conditions regarding collaboration between DEVI AHILYA VISHWAVIDYALAYA, INDORE and Police Reforms Cell Madhya Pradesh for enhancing, within the country, the availability of highly qualified manpower in the areas of data analytics, cyber security, data mining, web applications, mobile applications, artificial intelligence and machine learning without any prejudice to prevailing rules and regulations in both the departments without any disregard to any mechanism evolved and approved by the competent authorities under Govt. of Madhya Pradesh in so far as such mechanism applies to both the departments. The areas of cooperation can be extended through mutual consent.

2. Objectives of MOU

- a.** To promote and enhance research/develop solutions for various challenges faced in policing and investigation using communication, IT tools, Artificial Intelligence and machine learning.
- b.** To provide opportunity to students for working on real life projects decided by Madhya Pradesh Police Reforms thus enabling DEVI AHILYA VISHWAVIDYALAYA, INDORE to impart quality, realistic and practical education to its students.
- c.** Improving employment opportunity of its students by improving their practical exposure, experience and skills.
- d.** To encourage the students of DEVI AHILYA VISHWAVIDYALAYA, INDORE to interact with the Field/ Technical Officers of Police.
- e.** To provide full domain knowledge, concepts and guidance for developing solutions for various challenges before police.
- f.** To boost confidence level of students and developing zeal for conceptualization, designing and devising solutions using artificial intelligence, business intelligence, machine learning and other IT tools.
- g.** Developing partnership between Police Reforms Madhya Pradesh and Academicians for developing solutions under joint guidance of Internal Guide of DEVI AHILYA VISHWAVIDYALAYA, INDORE and External Guide, Special DGP, Police Reforms, M.P.
- h.** To recognize, reward and appreciate good work done by the students on various projects with intent to enrich their C.V. and improve their employability with the best industries and institutions.

- i. To develop capacity, confidence, self worth of students for starting New Ventures.
- j. Provide opportunity to faculty of DEVI AHILYA VISHWAVIDYALAYA, INDORE to gain experience in developing end to end solutions for practical challenges with respect to investigation in particular and policing in general.

3. Technical Area of Collaboration

- a. Practical domain knowledge related technical training/ counselling/ guidance of DEVI AHILYA VISHWAVIDYALAYA, INDORE students GRP/ Police Reforms and other related units.
- b. Police Reforms and DEVI AHILYA VISHWAVIDYALAYA, INDORE faculty members will provide joint guidance for process modification, process re-engineering, modernization and trouble shooting, etc.
- c. Arranging/ delivering special Lecture at DEVI AHILYA VISHWAVIDYALAYA, INDORE on the latest technical topic or challenges of Policing/ Investigation.
- d. Show case of product or activities of GRP/ Police at the seminar/workshop/ conference, etc. at DEVI AHILYA VISHWAVIDYALAYA, INDORE.
- e. Provide summer internship for second and third year students under auspices of Police Reforms, MP.
- f. Provide DEVI AHILYA VISHWAVIDYALAYA, INDORE/ domain knowledge and guidance for Major Projects on various subjects of police department, which would be part of their curriculum.
- g. Police Reform, MP may depute its expert/ personnel/ partners from Industries as visiting faculty at DEVI AHILYA VISHWAVIDYALAYA, INDORE to deliver any lecture on latest technology adopted by the police.
- h. Organize the workshop for basic computer training for GRP/ other police personnel.
- i. Research supervisors from both organizations will be the corresponding authors in any publication resulting from the collaborative work.

4. Terms and Conditions

- a. Police Reform MP will provide training/internship certificates to those Students and Faculties who opted for it.
- b. DEVI AHILYA VISHWAVIDYALAYA, INDORE will organize any training for GRP/ Police Personnel as part of MOU without any financial implication on DEVI AHILYA VISHWAVIDYALAYA.
- c. If any faculty of DEVI AHILYA VISHWAVIDYALAYA, Indore visits Police Reforms Cell, Bhopal for discussion related to projects, Travel allowance of the faculty will be borne by DEVI AHILYA VISHWAVIDYALAYA, Indore as per

rules of DEVI AHILYA VISHWAVIDYALAYA, after approval of Vice Chancellor.

- d. This MOU may be amended, renewed and terminated with mutual agreement of the DEVI AHILYA VISHWAVIDYALAYA, INDORE and Police Reforms, MP.
- e. Either any one shall have the right to terminate this MOU upon 60 days prior written notice to the other Institute.
- f. Students of DEVI AHILYA VISHWAVIDYALAYA, INDORE shall do their internship without any stipend by Police Reforms/ DEVI AHILYA VISHWAVIDYALAYA.

5. Evaluation of the Projects

Projects undertaken under this MOU shall be jointly evaluated by internal guide and external guide and would be jointly signed

6. Confidentiality

- a. The students and faculties of the DEVI AHILYA VISHWAVIDYALAYA, INDORE have to maintain confidentiality of concept, domain knowledge and contents. Concerned faculty and students have to sign confidentiality affidavit in this respect.
- b. All the domain knowledge, information/data provided or created during the performance of the MOU and will not be disclosed same to any third party without written consent of the Special DGP Police Reforms MP.

7. Intellectual Property Rights

- a. If the outcome of these projects related to product development, process technology and design etc. which involves matter of secrecy and concern with security of the State and the Country, the same will not be allowed for publication/printing in any form such as Electronically/ Print/ Verbal, etc.
- b. If the outcome of the projects fall under the category of intellectual property but does not fall under clause 7 a. of this MOU and Police Reforms Madhya Pradesh, wishes to take patent then participating student and faculty will also be the patentees.
- c. All the efforts put by the student/s as a part of this MOU will be accounted for by way of reporting the work in thesis and/or paper publication except the part for which IPR needs be claimed.
- d. Neither of the supervisors will publish the work carried out under this MOU without knowledge of the other.

8. Duration of MOU

This agreement shall be initially valid for three years from the date of signing the agreement and to be renewed subsequently by mutual consent of both the parties.

9. Coordinators

Co-ordinator:

Dr. Shraddha Masih (SCSIT, DAVV)

Co-coordinators:

Dr. Vivek Shrivastav (IIPS, DAVV)

Ms. Kirti Pawar (School of Electronics, DAVV)

10. Various modules taken by DAVV

- Automated Investigation Support System for illegal arms*
- GRP Help App and response monitoring and automation*
- Photography facilitation tool with right angle, capturing of critical features to use it for analysis*
- Face recognition*
- Baggage Recognition*
- CCTV Data Requisitioning Module*
- Vehicle Recognition System*
- QR tools for identification and verification and safeguarding public from impersonators*
- App for registration of Civil Defence Volunteers*
- App for observers*
- Intelligent Documents reader, assimilator and analysis system (IDRAAS)*

*Being developed by SCSIT,DAVV * Being developed by other Departments of DAVV

Few Glimpses:



