

### **Proposal No. 17**

(Proposal details for the R&D scheme of USOF)

#### **Subject: AI enabled use cases applications**

<b>Problem Statement</b>	To design and develop a model for fast detection of images from a huge database of 125 crore plus images.
<b>Problem Description</b>	<p>Solution for</p> <ol style="list-style-type: none"><li>1) Fast Storage and model training of 125 crore passport size face images.</li><li>2) Model to search a single image in the above images database within a second</li></ol> <p>Challenge here is that number of classes for classification is too high and data is unlabeled.</p>
<b>Future Expectations</b>	<p>Improvement in detection speed. The database will increase in size in future. The rate of injection will be around 2 lakh per day. There can be deletions also.</p> <p>The system should be able to manage the metadata in DB and actual images files in file system. System should provide reports and capable of backup and restore.</p>

#### **Format of Response**

Companies / organizations / institutions / individuals developing enabling technologies / modules / components / subsystems / products are required to respond in the format provided in Annexure-A, on the DOT website ([link address provided- refer "format of response"](#))