



HACKATHON '17

# World's Biggest Hackathon

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Ministry of Steel

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## Ministry of Steel

Ministry of Steel coordinates policies for and facilitates the growth and development of the iron and steel industries. They have nominated MECON to represent their ministry in the Smart India Hackathon 2017. They have identified 31 problem statements for this initiative.

### [Transfer of employees HR data from one SAIL Plant to other SAIL plant](#)

#MS31

Total Submissions : 13

On transfer of employee from one Plant/Unit to another plant/Unit in SAIL, relevant personal data to be made available at new Plant/Unit online. Separate ERP system (SAP)/In-house software are available in different units of SAIL plants.

### Application for monitoring deployment of manpower by contractors

#MS30

Total Submissions : 12

Monitoring agency has the responsibility of ensuring manpower deployment by contractors. However tracking of manpower actually deployed by the contractors in a industrial / residential/ government project becomes very difficult in absence of a proper monitoring system and mainly one has to depend on contractor's manpower reports, which may not be factual or accurate.

Hence it is necessary to have a system for counting / tracking of manpower actually deployed by the contractors in a project, with provision of categorized deployment reports like – skilled / semi-skilled / unskilled / helpers, etc. Additional employment information like permanent / contract / casual will also be helpful for making labour payments.

Sample data required: No

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### Application to restrict conversion of Pdf/tiff drawings in other formats

#MS29

Total Submissions : 1

Majority of the clients demand drawings in AutoCAD or pdf format , after successful completion of the each project . For successive Expansion of the Projects, there are chances that expansion projects may be carried out using same drawings , which are obtained from MECON during initial stages . Though, there is MECON's "copy right "clause printed on each of MECON's drawings, still MECON is not in a position to curb this unethical practice, which is a big financial burden on MECON.

**Software to calculate area, volume etc. of a geometric shape and to provide a 3D AutoCAD compatible drawing**

#MS28

Total Submissions : 5

A software program that will calculate the surface area, volume, and tare weight and gross weight of a given geometric shape and also is able to give the shape as an output in a 3D AutoCAD compatible format.

The inputs in the front end software could be in the form of dimensions, bulk density, plate density, angle of repose etc. The output shape of say a steel bunker should also include the stiffeners the spacing & sizes of which are given as input in the front end page.

Sample data required: No

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**Bank Reconciliation Problem for multiple types of statement generated by different banks**

#MS27

Total Submissions : 2

Bank reconciliation in ISP Burnpur involves comparing a bank statement to internal accounting records in order to explain differences between the two and examine discrepancies. But manual cash reconciliations are tedious, costly, labour intensive and error-prone. While automation is an obvious conclusion, it is not a simple one. The key to successfully automating the bank reconciliation process involves facilitating communication between multiple diverse systems (with various banking systems to our accounting system). All banking systems follow their own formats to generate bank statements of the customer. In absence of any common



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### [System to provide information of Software /OS installed in computers](#)

#MS26

Total Submissions : 11

To find out available software installed in Steel Plant, with versions/patches licenses etc. across a defined network of servers / PCs and communicate their latest versions. Solutions may be in the form of easy-to-operate Apps/system on central server, NMS or client machines.

Sample data required: No

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### [Mobile apps to monitor office network](#)

#MS25

Total Submissions : 11

MECON is looking for mobile app/other software solution for discovering & monitoring IT assets in a local area network.

Sample data required: No

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### [Migration from IPv4 to IPv6](#)



Sample data required: No

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### [Hacking of Website](#)

#MS23

Total Submissions : 6

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HSCL official website [www.hscl.co.in](http://www.hscl.co.in) was being hacked couple of times in past few years. For avoiding such incident some site locking features introduced which had resulted in decrease of such problem. However a solutions to this is total protection of the website.

Sample data required: No

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### [Email Hacking and identity compromise](#)

#MS22

Total Submissions : 2

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If somehow email-id's are compromised, the hackers copy our identity and use our email ID to send junks mails to different domains worldwide. It appears in outside world as if our domain is sending these junk/spam mails and thus our IP's becomes blacklisted. A solution is sought for the same.

Sample data required: No

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Mailing servers of ISP Burnpur, are required to send and accept emails and in the process server accepts spam mails. This problem of spamming can be reduced by applying some spam filters in mailing servers. But the spam filters can be applied only after knowing the spam sources. However, it is also not possible to know the entire spam sources in advance. Solution of the problem is sought so that spams can be blocked or filtered before arriving to user's mailboxes.

Sample data required: No

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### Identifying phishing emails and not responding/clicking of any unwanted link or attachment

#MS20

Total Submissions : 2

We SAIL-RSP, gets lot of emails with lot of offers like winning a lottery/prize and they ask us to send our details. Now a day's viruses are sent as attachments and once clicked on these attachment, PC gets compromised and in some cases, files in the PC gets encrypted. Files can only be decrypted by paying a ransom to hacker and hence called ransomware. A solution is sought for the same.

Sample data required: No

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### Identifying Phishing and fraud sites

#MS19

Total Submissions : 3



Sample data required: No

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### Accessing server data without storing in local devices

#MS18

Total Submissions : 10

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Users of FSNL shall be able to access the data on any server they are authorized to access, but will not be able to store data on the mobile/computer device through which they are accessing the server.

Sample data required: No

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### Common Communication Platform for Ministry to PSU's and PSU's to PSU's

#MS17

Total Submissions : 11

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Common Web & mobile base portal for communication between Ministry to their PSU's and PSU's to PSU's where each user can share their experience/achievement related to his work/project and problems.

Sample data required: No



#MS16

Total Submissions : 13

Common Feedback system is required for customers/vendors/general public where each user can share their experience/views with FSNL.

Sample data required: No

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### Electronic Document Management System

#MS15

Total Submissions : 16

MECON is an engineering consultancy organisation under Ministry of Steel, GoI. As part of our everyday work, MECON creates, receives & transmits numerous documents. As these documents are our most valuable asset, MECON would like to preserve documents in a systematic manner for use in future projects.

Hence, a smart web application based Electronic Document Management System is required. The software must have the following features as a minimum:

Store, segregate and index the documents in a database on a central server, Search facility using keywords.  
Auto-generate a unique number which may be used to locate, know the present status/ version, trace the work flow of the document.  
Auto generate the document index pertaining to a certain project, Controlled access to documents  
Provision for flow of documents for purpose of assignment to multiple users. May have features of attaching a file, approval, comment, rejection, remarks etc. The user who receives any assignment, should receive a notification/ flash message etc.





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### Mobile apps for project monitoring

#MS14

Total Submissions : 12

MECON is an engineering consultancy organisation under Ministry of Steel, GoI. As part of our everyday work, we manage various projects for our clients. There is no mobile based application for project management and monitoring which can have following features:

Should be compatible with IOS, Windows and android platforms.

Should have user friendly graphical user interface

Should display the critical milestones of the project

Should send mobile alerts whenever a milestone date is approaching and warn in case it has already failed

Should provide controlled access to the projects

Should display data in graphical/ chart forms

Should display real time S-curves to show project progress

Should monitor actual progress against scheduled progress

Customizable to add new project

Sample data required: No

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### Solar Panel for all tall buildings

#MS13

Total Submissions : 11



Locality. Mobile apps shall have the provision of capturing the area of a roof covered by solar panels in a building. Data once captured by the application shall be transmitted to the central server. Mobile apps shall also be able to give the percentage area of roof top covered by solar panel using data of central server of that locality.

Sample data required: No

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### [Automatic System to Power-off Street light in day time/ Powering off alternate street lights at Mid Night](#)

#MS12

Total Submissions : 40

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Streets lights are lighted in day light also. System for turning off street lights in day time is sought.

System shall also include turning off alternate street lights at midnight for energy conservation.

Sample data required: No

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### [Mobile App for reducing power theft.](#)

#MS11

Total Submissions : 8

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The mobile apps shall capture location of theft automatically by using GPS and shall have the provision of transmitting the same to a central server. Photograph of area of theft shall be captured.



### Online Validation of Test Certificate of products in steel plant

#MS10

Total Submissions : 4

Test Certificate of finished goods in Steel Plant are generated for a sampled lot of products. The products are procured by Purchaser and Purchaser in turn sell the products in separate lot to multiple customers and copies of the Test Certificate are given to each customer which may leads to commercial misuse. Solution like online validation of such transfer certificate is sought.

Sample data required: No

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### Online Railway Receipt from Indian Railway

#MS9

Total Submissions : 23

Dispatch documents along with details of loaded wagons are generated online and submitted to railway in hard copy for railway to generate Railway Receipt (RR). RR information generated through computer system by Railway is provided to Bhilai Steel Plant in hard copy leading to manual data entry and delay in processing. A computerized solution for the same is sought.

Sample data required: No

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In Steel Plant, Railways goods wagons are weighed through automated means. However, the identification of wagons is done manually by the operator. A software to automatically read the wagon number and capture this information in computer is sought.

Sample data required: No

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