

ease Notes – Summary of TSE

1. New Features/Functionality Added

a) TSE module

- Creation of a Tank
- Processing samples
 - 1) Creation the samples.
 - 2) Postponing the sample
- IOM Generation
- Viewing status of created samples at different stages.
- Finalizing the sample test report and forwarding the report to the customer.
- Customer to SAP mapping Authority

2. Existing Features / Functionality Modified

a) This is first time release.

3. Existing Features / Functionality Removed

a) This is first time release.

4. Issues Resolved (Bugs if any)

a) This is first time release.



Release Notes - Details

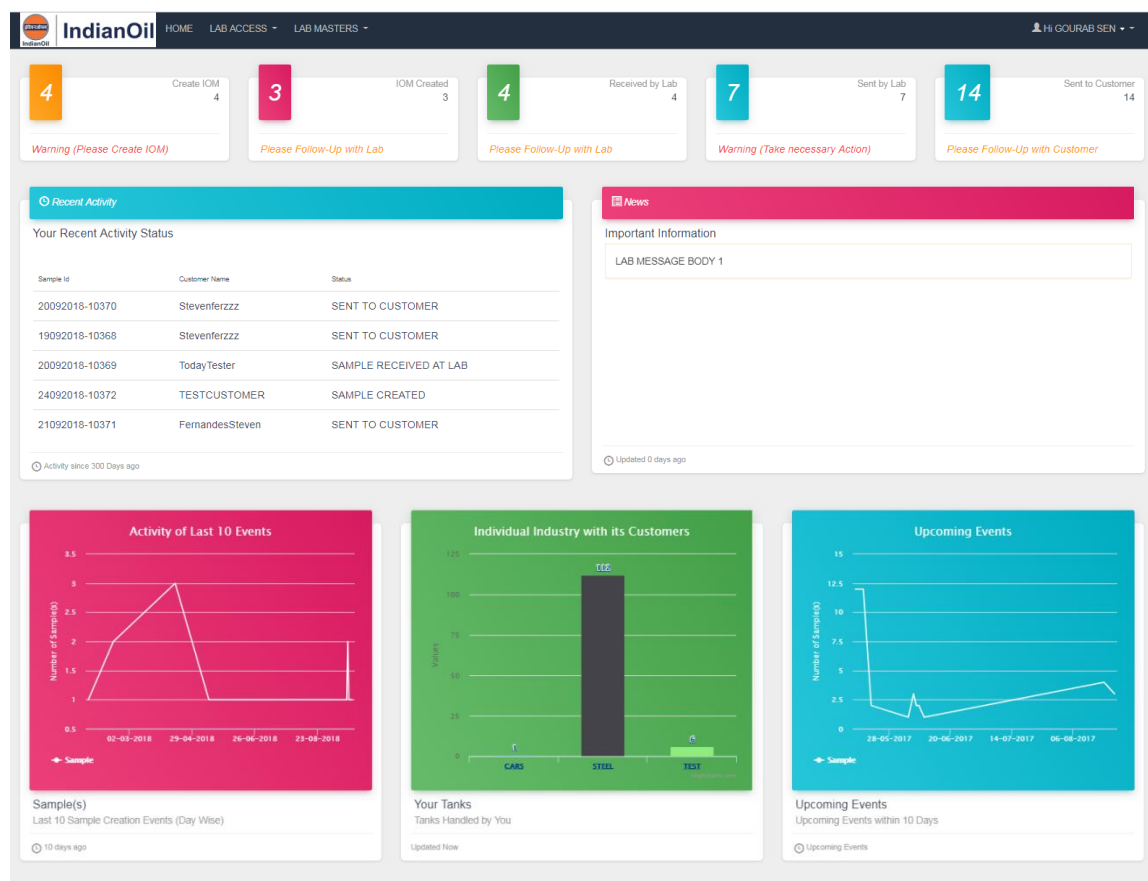
This software helps in condition monitoring program. There are two kinds of roles as of now—TSE and LAB.

Role TSE: Each customer will be mapped to a TSE. TSE will be getting notification alert mails. Once TSE logs into the system,

1.0 NEW FEATURES/FUNCTIONALITY ADDED

1.1 Dashboard

All four roles have Dashboard after logging in.



Here, the first row ^①, is cards with number of pending sample to be forwarded/check/approved/inbox depending on the selected



The second row ² contains two cards, the first one represent the recent activity done by the User. E.g. the samples received or sent lately. The second one represents the latest updates/new for the user.

The Final row ³ contains three cards with all graphs in it. Where First represents the samples holding by that user (by role), the second represents the number tank handled by him. And the last card represents the number of events i.e. next samples to be taken within the next 10 days.

1.2 Automatic mail notification to TSE:

Description of functionality:

Each customer will be mapped to a TSE. TSE will be getting notification alert mails regarding how samples are due for condition monitoring keeping controlling office of TSE as CC with the subject “**Alert: Pending samples as on: <current_date>**” and each records are having different color based on how long these are due. It provides summary reports about how many samples are due on a due date.

From: servocmp@indianoil.in

To: Abhishek Kumar, Verma (अभिषेक कुमार)

Cc: Das, Samrat (सम्राट दास)

Subject: Alert: Pending samples as on : 06-06-2017

Dear A K Verma,

Please find the below summary of Oil samples due for Condition Monitoring :

Customer Name	Sample Due Date	No of Pending Samples
Rashtriya Ispat Nigam Limited	16-05-2017	12
Rashtriya Ispat Nigam Limited	19-05-2017	12
Rashtriya Ispat Nigam Limited	22-05-2017	2
Rashtriya Ispat Nigam Limited	05-06-2017	3
Rashtriya Ispat Nigam Limited	07-06-2017	3
Rashtriya Ispat Nigam Limited	08-06-2017	3
Rashtriya Ispat Nigam Limited	09-06-2017	3
Rashtriya Ispat Nigam Limited	11-06-2017	3
Total		41

Due Date > 15 days

Due Date > 7 days

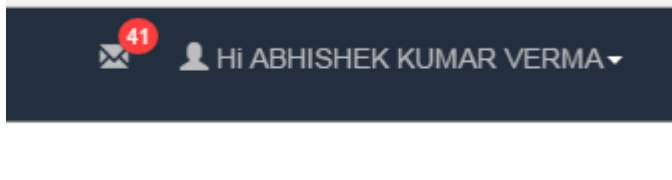
Due Date <= 7 days

Click here to login: <http://10.146.65.10/LUBES>

*** This is a system generated email. Please do not reply to this email id. ***

1.3 TSE Role:

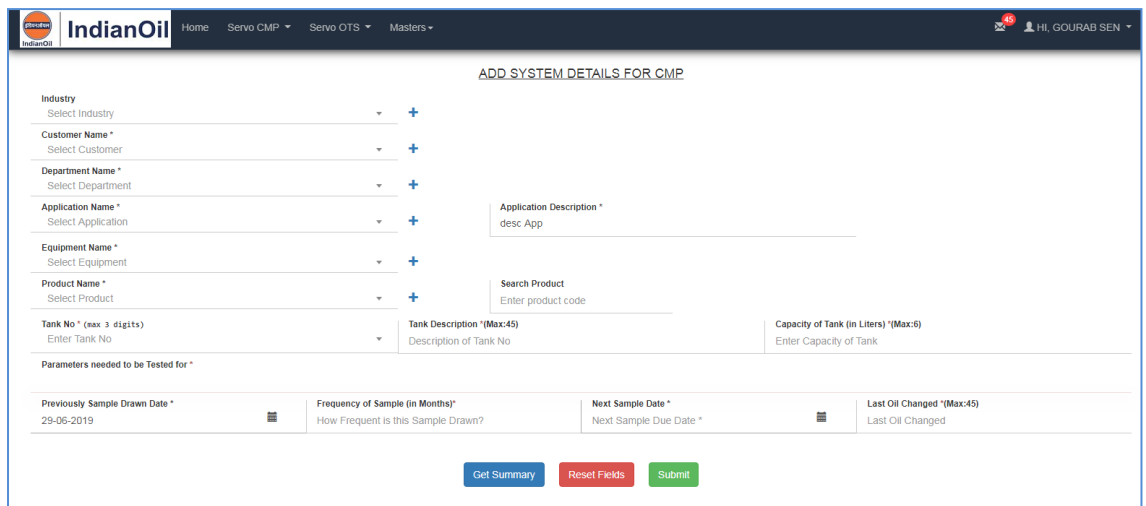
If TSE logs into the system successfully then number notification will be shown i.e. how many samples need to be created.




1.3.1 Tank Creation/Updating:

For Creation, go to **Masters** → **System Details**


It will show you a form for creating a tank. Here, all fields are compulsory.



The  buttons are used for adding a new option against the respected Field.





(E.g. for industry, on clicking the  button a new option will be added to industry and an Industry will be added in the Masters table of Industry).

On creating the tank, TSE have to fill the following Fields.

- Industry
The TSE selects an Industry from the dropdown. Only TSE Admin has the rights to add an industry.
- Customer
The TSE selects a Customer from the dropdown. Where the customers are filter based on the selected industry. The TSE has the rights to add a new Customer for the selected Industry.

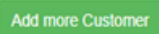

Add Customer(s) in CARS Industry
×

Add more Customer

Customer No. *	Customer Name *	Remove
Enter Customer Code	Enter Customer Name	×
TSE Emp Code 507469	TSE Emp Name GOURAB SEN	TSE Emp Email SENG@INDIANOIL.IN
Ctrl Emp Code 17662	Ctrl Emp Name N. Rajgopalan	Ctrl Emp Email NRAJGOPALAN@INDIANOIL.IN



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Cancel
Add Customer

Here, Customer Number is 8 digit custom number. The bottom six fields are fixed field filled automatically depending on which controlling officer is the current logged user assigned. Even the user's details are provided.

On clicking , another row will be appended for adding of multiple customers. On clicking , the aligned row will be deleted.

- Department
The TSE selects a department from the dropdown. Filter w.r.t the industry selected. The TSE has the rights for adding a new department.



On clicking , another row will be added for adding multiple departments. On clicking , the aligned row will be deleted.

- Application

The TSE selects a department from the dropdown. The Application is doesn't have a relation to other objects. Only TSE Admin has a right to add an application. A TSE doesn't have the permission to add a new application and pop error will appear saying that the person has insufficient rights.

- Equipment

The TSE selects a department from the dropdown which gets filter by all the equipments created by labs. The TSE has the rights for adding new equipment. If the user selects 'Others' option in Make Name, a text field appear beside it for entering remarks against a make not registered.

- Product

The TSE selects a product from the dropdown. Here, the dropdown is filter after entering a valid product Code in the given right-side of the field.



On entering a valid Product code, the product dropdown will be filtered with the product Code & Product Name.

Only TSE Admin has the rights to add a product.
There is also a new option 'OMC Product'

After selecting, the last row will be hidden and two new fields will appear (Grade for entering the grade of the OMC product and similar product for selecting a product which have a common test parameters linked to it).

- Tank

Once the above fields are entered, the Tank No. field will be filtered with the existing tank belonging in this entered map (**Industry->Customer->Department->Application->Equipment->Product**).

Note: The dropdown is not for selecting, it is only provided as a reference if the TSE is entering a duplicate tank.

Here, there are two types of tanks, One with servo product and one with OMC products. The difference in these both tanks are when servo product is selected the sample frequency and dates can be edited but if OMC product is selected there is a no need of frequency as all OMC product tanks are only made for One Time sampling (**Discussed ahead**).

- Test Parameters

Here the default test parameters are selected for test. The TSE officer can remove the unnecessary ones which are not required for testing the samples.



On clicking [Get Summary](#), the given tanks are shown in the below table.

Department	Application	Equipment	Product	Tank No	Tank Description	Prev Sample Date	Next Sample Date	App Desc	Remove Tank
DEPTTEST	TEST APP	MECHATEST	SERVO STEEL 680 1	TK1	new tank 2	12-09-2018	12-11-2018	for testing TK1	

After entering the tank number, tank description and Capacity of tank (e.g. 550ml). The TSE has to select the parameters required while the test is made against the sample taken from this respected tank. Here KV@40, TAN and VISCOSITY INDEX.

Previously Sample Drawn Date *	Frequency of Sample (in Months)*	Next Sample Date *	Last Oil Changed *
24-09-2018	How Frequent is this Sample Drawn*	Next Sample Due Date *	Last Oil Changed

All these fields are mandatory and needed for documentation for the future. The previous sampling date for new tank are set by default.

On Submitting the form, a new tank will be created. And will appear in **Servo CMP→Process Sample→Create/Postpone Sample** page and ready for creating a sample.

1.3.2 Process Sample:

Go to **Servo CMP→Process Sample**


Once a sample is taken from the tank, it cannot be deleted from the database. It will show all the samples due for condition monitoring. For each sample, TSE will have to take either of these two actions:

1. Sample Creation
2. Sample Postponing

Below is the respective screenshot of the summary of due sampling.




1.3.2.1 Sample creation :



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[Servo OTS](#)
[Masters](#)



Hi, GOURAB SEN

Last Sample Date: 29-03-2019

Portioned History

Create CMP Sample

Last Sample Due Date: 29-05-2019

Industry CARS	Customer FERNANDES NICK	Department NEWDEPARTMENT	Application TEST APP	Describe Application for testing.	
Equipment NICK'S EQUIPMENT	Tank no 001	Product SERVO MESH SP 320		Capacity in Litrs 600	
Sample Priority * High	Sample Drawn Date * Sample Drawn date *	TOP UP Quantity between 29-03-2019 and 01-07-2019 (in Litrs) * TOP UP Quantity between 29-03-2019 and 01-07-2019 (in Litrs)		Running Hrs/Current Oil * Running Hrs/Current Oil *	
CSL		R&D		BOTH (CSL-R&D)	
Lab Name NEW CLASS	Lab In Charge * Gourab Sen	Sample Drawn(in ml) * Sample Drawn(in ml) *			
Parameters needed to be Tested for *			Specify additional paramet		
<input checked="" type="checkbox"/> KV@40 <input checked="" type="checkbox"/> VISCOSITY INDEX <input checked="" type="checkbox"/> FOAMING Test,Tend/Stab- Seq I <input checked="" type="checkbox"/> FOAMING Test,Tend/Stab-Seq II <input checked="" type="checkbox"/> TAN					
Comments on Sample			Reasons for Priority of Sample		

GO BACK

REVIEW | SUBMIT



Attributes like “Industry”, “Customer”, “Department”, “Application”, “Equipment”, “Tank No”, “Product”, “Capacity in Liters” are read only.

TSE has to specify the below attributes –

1. Sample drawn quantity in ml.
2. Sample drawn date (all dates prior to some specified future days with respect to sample due date will be enable and all other days will be disable).
3. Top up quantity between <last sample date> and <today’s date> in Liters.
4. Running Hrs of Current oil.
5. Selection of LAB (Lab In Change will be auto-populated upon selection of LAB).
6. Priority of Sample (drop down selection).
7. Addition/Deletion of parameters needed to be tested for along with Addition/Deletion of Specify additional parameters to be tested for.
8. Comments on Sampling and reasons for priority of sample.

Some of these fields are mandatory and some are not. Presence of * in a field indicates that the field is mandatory.

Submission without entering data in the mandatory field will show error.

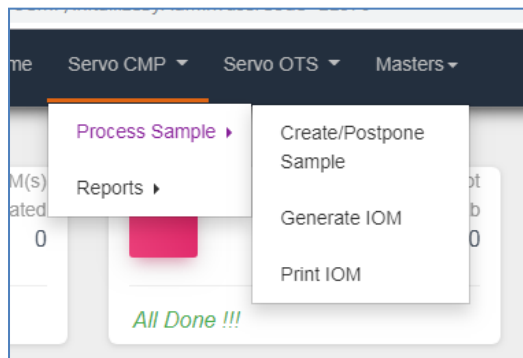
While creating sample, the TSE has two types of samples he/she can create i.e. CMP Sample and One-Time Sample

CMP Sample: In CMP Sample the sample are drawn in monthly frequencies. For these samples the list is filtered by tanks which have their sample due date have come close.

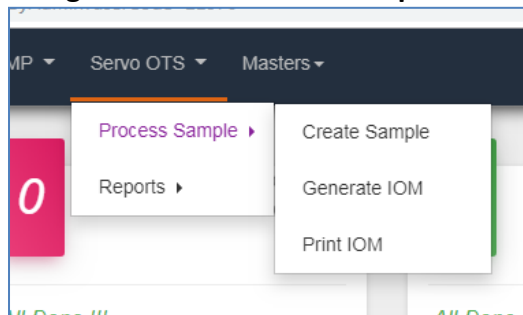
One-Time Sample: In One-Time Sample, the sample is drawn whenever required by customer. For these samples the list is filtered by all tanks available for drawing a sampling or has drawn a sample which has already been tested.

Note: Once a sample is made against a tank the same cannot be taken unless the previous sample is taken and tested against the same tank.

Navigation for CMP Sample:



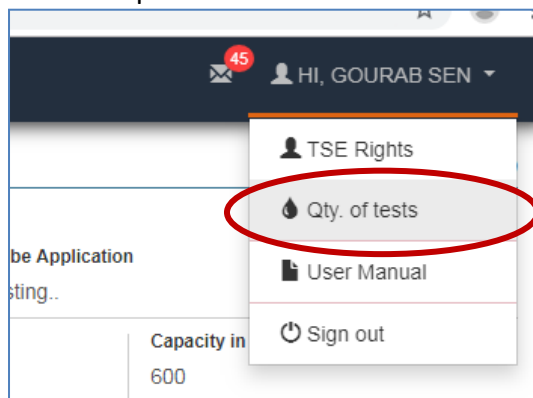
Navigation for One-Time Sample:



There are two types of Labs: CSL And RND. A sample can be sent to one of the three types of labs: CSL, RND & CSL-RND labs. A single sample is sent for CSL & RND labs whereas for CSL-RND Labs two samples are sent: one for CSL and second for RND.

Here, in CSL-RND Lab Sample there are duplicate attributes for sending both CSL and RND Labs i.e. test parameters Sample's quantity drawn, the lab to be sent to and its lab user (pre-defined). The Lab and the lab user are selected dynamically depending on the product category for RND Labs and TSE employee-code linked to labs for CSL Labs.

Note: Kindly enter the sample quantity properly for the respected sample. Test Parameter quantity can be calculated for Qty. of Test viewed from the page in the left top corner.



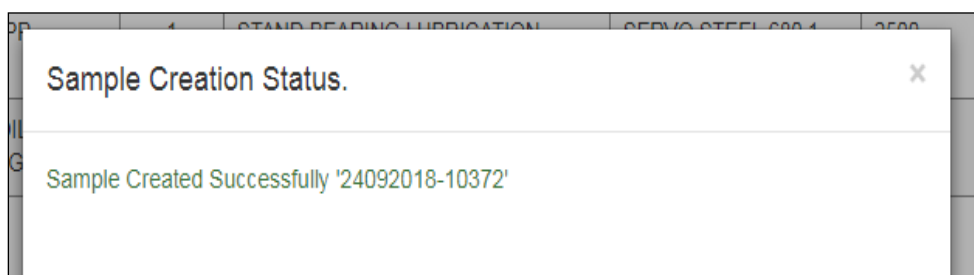


During submission of data i.e. creation of sample, system asks for confirmation for the sample data entered whether ok or wants to edit.


If any data is to be changed then by clicking “Cancel”, user can modify the same. Otherwise, user can click “OK” and create the sample.

After creation of sample successfully, it redirects to summary page with the message “**Your Sample Has Been Sent to LAB for Testing SUCCESSFULLY**” along with the

“**Your Sample ID is: 07062017-10571**”. Sample ID is distinct for each sample which has been created. Sample ID is started with date “07062017” i.e. it has been created on 07th June, 2017(07/06/2017).



1.2.1.2 Sample Postponing:

Sample can be postponed by clicking on  icon and accordingly TSE has to enter respective data. Attributes like “**Industry**”, “**Customer**”, “**Department**”, “**Application**”, “**Equipment**”, “**Tank No**”, “**Product**”, “**Capacity in Liters**”, “**Parameters needed to be Tested for**” are read only.

Last Sample Date: 06-05-2017		Postponed History		Postpone Sample		Sample Due Date: 11-06-2017	
Industry STEEL	Customer Rashtriya Ispat Nigam Limited	Department UTILITIES	Application Nitrogen Compressor				
Equipment Nitrogen compressor-4	Tank no 1	Product SERVO PRIME 57	Capacity in Liters 2500				
Parameters needed to be Tested for *							Postponed till Date *
<input type="checkbox"/> KV@40 <input type="checkbox"/> KV@100 <input type="checkbox"/> VISCOSITY INDEX <input type="checkbox"/> FOAMING Test,Tend/Stab- Seq I <input type="checkbox"/> FOAMING Test,Tend/Stab-Seq II <input type="checkbox"/> FOAMING Test,Tend/Stab-Seq III <input type="checkbox"/> DEMULSIBILITY <input type="checkbox"/> FLASH POINT <input type="checkbox"/> TAN							Postpone till date *
Reason for Postponing the Sample							
<input type="button" value="SUBMIT"/>							

To know the postponed history, User needs to click the link “**Postponed History**” and it will show the respective history.



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Last Sample Date: 06-05-2017 [Postponed History](#)

POSTPONED DETAILS OF THE SAMPLE

Show 10 entries

Search:

Prev Sample Date	Next Sample Date	Postponed Date	Remarks
06-05-2017	11-06-2017	12-06-2017	postponing and revised 12.06.2017

Showing 1 to 1 of 1 entries

Previous
1
Next

TSE has to put date till what he/she wants to postpone and there is also provision to enter reason for postponing the same. During submission of data i.e. postponing of sample, system asks for confirmation for the sample data entered whether ok or not.

Sample Review

Industry TEST

Customer TESTCUSTOMER

Department FINANCE

Application TEST APP

Describe Application Test application as per test

Equipment TEST EQUIPMENT 2

Tank no 1

Product SERVO MESH SP 320

Capacity in Ltrs 25000

775 ✓

Sample Drawn Date * 24-09-2018 ✓

312 ✓

1 ✓

BRAIN HOUSE ✓

Lab In Charge * Gourab Sen ✓

Medium ✓

Parameters needed to be Tested for *

KV@40 | TEST1 | CSD | KV@100 | VISCOSITY INDEX | FOAMING Test,Tend/Stab- Seq I

FOAMING Test,Tend/Stab-Seq II | FOAMING Test,Tend/Stab-Seq III | TAN

Specify additional paramet

adwasdwd

asdaadw

EDIT

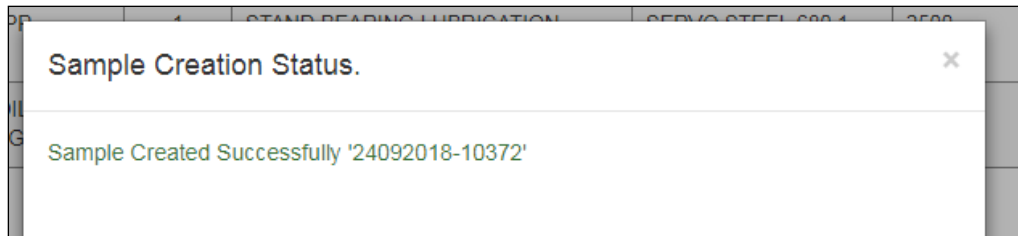
SUBMIT

If any data is to be changed then by clicking “Cancel”, user can modify the same.



Otherwise, user can click “OK” and create the sample.

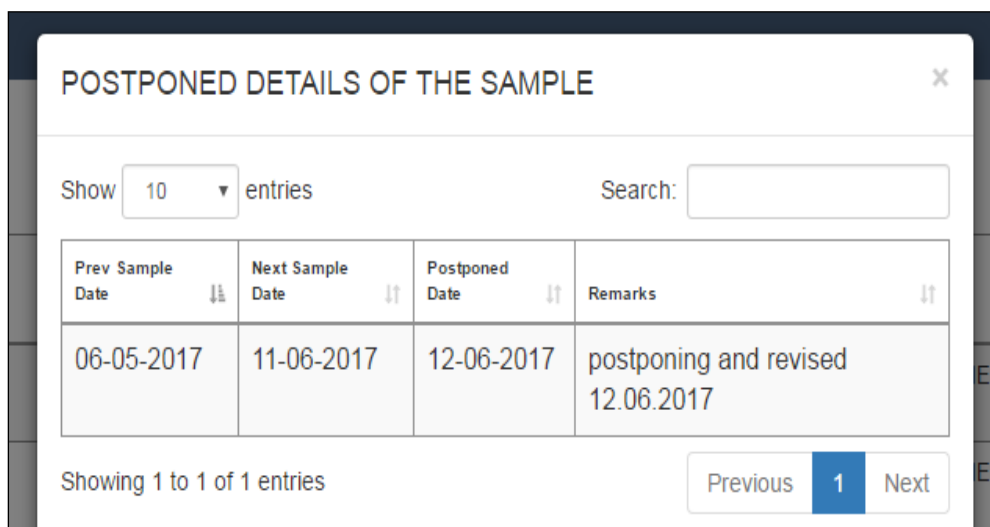
After successful postponing of the sample, it redirects to the summary page with the message “**Your Sample Date Has Been Postponed SUCCESSFULLY**”.



From the summary page, TSE can view the postponed history of a sample.

Search: <input type="text"/>			
LAST SAMPLING DATE	NEXT SAMPLING DUE DATE	REVISED SAMPLING DUE DATE	DEFERRED NO
06-05-2017	11-06-2017	12-06-2017	1

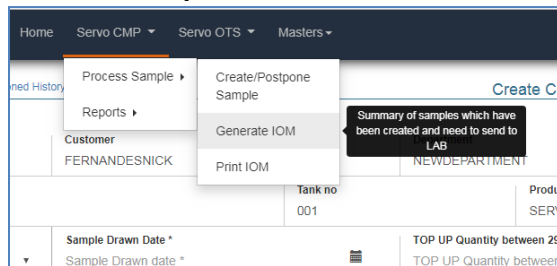
After clicking on “**Deferred No**” value, postponed history can be viewed as grid summary.



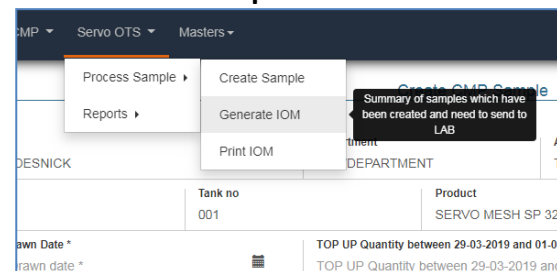
1.3.3 IOM Generation

Under After processing an sample the TSE officer has to generate an IOM out of it in:

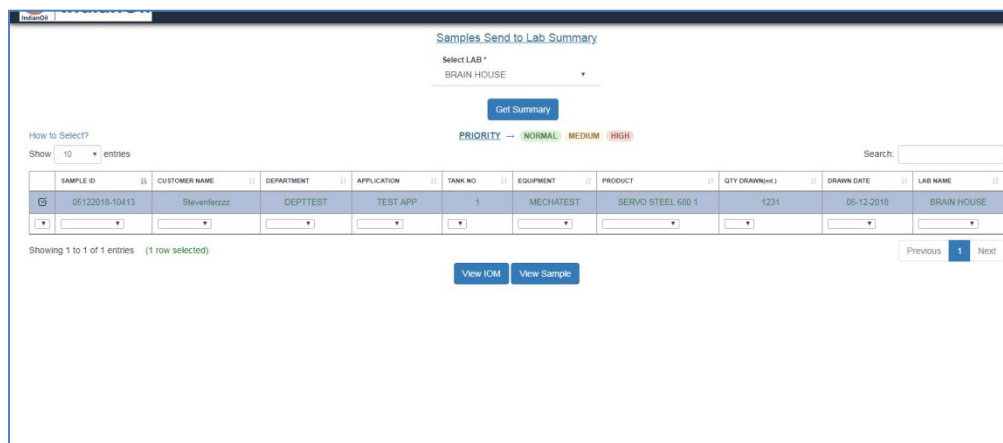
For CMP Sample:



For One-Time Sample:



The IOM acts as a reference to one or more sample created on the same time It contains info about what tank to test, how quantity to be drawn, the date of when the sample was drawn and which lab it is assigned to. This IOM is later printed and send to the Lab.

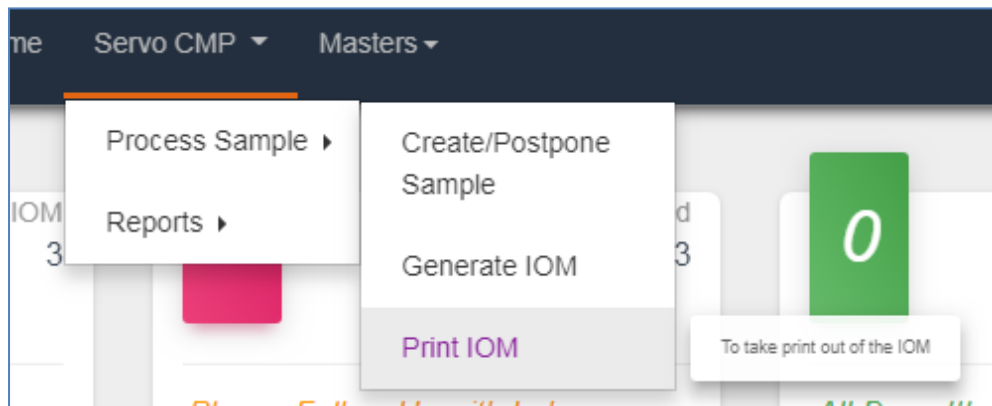


Here the TSE officer selects the lab he/she has created the sample for sending and against it generates an IOM by clicking on **View IOM** .



The [How to Select?](#) above the top left corner of the table can give yuh instructions on how multi-select rows and generate an IOM against it.

The TSE is also allowed to View the sample again and make changes if needed. After generating the IOM, the IOM is send to the Lab given in the sample for testing. For a reprint the TSE can go to **SERVO CMP -> Process Sample->Print IOM**.



1.3.4 Reports:

Every Report has four dropdown at the top used for filtering the table.

Namely,.. Customer, Department, Application & Product.

Under reports, there are currently 4 type of reports are available

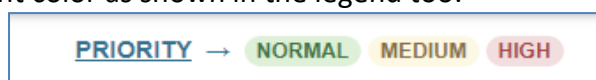
- **Sent to Lab**
- **Received by Lab**
- **Sent by Customer**
- **Send to Customer**

1.2.2.1 Sent to Lab:

Go to **Servo CMP→Reports→Sent to Lab**

Once sample has been created and sent to LAB, summary of these samples are shown under this summary grid. These are the samples which are yet to acknowledge by the LAB

Depending on priority of the sample, the respective records will be appearing in different color as shown in the legend too.



Also Depending on the type of sample two legends are affixed above the table



CSL LAB Type → CSL
 RND LAB Type → RND

For CMP Sample:

For One Time Sample:

By clicking on the sample ID, TSE can view the details w.r.t the sample ID and accordingly TSE can update the same. TSE can modify respective data and update the same. But TSE has to ensure that the same sample is being sent to LAB physically also.

Last Sample Date: 22-04-2017		Edit & Resend Sample to LAB		Sample Due Date: 05-06-2017	
Industry STEEL	Customer Rashtriya Ispat Nigam Limited	Department WRM	Application stand 1 to 13 hyd actuators		
Equipment Hydraulic system Cellar-3	Task no 1	Product SERVO SYSTEM HLP 46	Capacity in Liters 4000		
Sample Drawn in ml * 500	Sample Drawn Date * 07-06-2017	TOP UP Quantity between 22-04-2017 and 07-06-2017 * 2000			
Lab Name CSL Madhavaram	Lab In Charge * D Mankandan	Sample Priority * Medium			
Parameters needed to be tested for * <input type="checkbox"/> KV@40 <input type="checkbox"/> KV@100 <input type="checkbox"/> VISCOSITY INDEX <input type="checkbox"/> FOAMING Test,Tend/Stab- Seq I <input type="checkbox"/> FOAMING Test,Tend/Stab- Seq II <input type="checkbox"/> FOAMING Test,Tend/Stab- Seq III <input type="checkbox"/> DEMULSIBILITY <input type="checkbox"/> FLASH POINT <input type="checkbox"/> TAN <input type="checkbox"/> APPEARANCE					
Comments on Sample Comments on Sample			Comments on Priority Comments on Priority of Sample		
<input type="button" value="Update"/>					



During updating for the same, system asks for confirmation and does the mandatory field validation. If it passes, the sample is being updated.

1.2.2.2 Received by Lab:

Go to **Servo CMP**→**Reports**→**Received by Lab**

Summary of the Samples, acknowledged by the LAB upon received the same physically are shown here so that TSE can view what are the samples which have been acknowledged by the respective LAB upon received the samples physically.

PRIORITY -- (NORMAL) MEDIUM HIGH

Sample(s) received by Lab

Filters:

Select Customer* Select Department* Select Application* Select Product*

Select Customer Select Department WRM Select Application Select Application Select Product Select Product

Search By

Show 10 entries Search

EDIT SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT	QTY DRAWN(Ltr.)	DRAWN DATE	CREATED ON
29042017-10489	RASHTRIYA ISPAT NIGAM LIMITED	WRM	BOILER FEED PUMP	1	FINISHING BLOCK CELLAR-7	MOBIL VACUOLINE 525	500	29-04-2017	29-04-2017
29042017-10494	RASHTRIYA ISPAT NIGAM LIMITED	WRM	TEST APP	2	STAND BEARING LUBRICATION CELLAR-4	SERVO STEEL 680	500	29-04-2017	29-04-2017
29042017-10488	RASHTRIYA ISPAT NIGAM LIMITED	WRM	BOILER FEED PUMP	2	FINISHING BLOCK CELLAR-7	MOBIL VACUOLINE 525	500	29-04-2017	29-04-2017

Showing 1 to 3 of 3 entries

Previous 1 Next

By clicking on the Sample ID, TSE can only view the details of the respective sample along with the sample receive date and expected test result date.

TSE can't modify any data in this page.

Last Sample Date: 31-12-2016 Sample Received by LAB Sample Due Date: 22-05-2017

Sample Received Date: 31-05-2017 Expected Test Result Date: 12-05-2017

Industry: STEEL Customer: Rashtriya Ispat Nigam Limited Department: WRM-2 Application: No Test M8 Blocks, hydraulic systems

Equipment: FINISHING BLOCK LUBE SYSTEM (C1) Tank no: 2 Product: MOBIL VACUOLINE 525 Capacity in Liters: 144000

Sample Drawn in ml: 1000 Sample Drawn Date: 12-05-2017 TOP UP Quantity between 31-12-2016 and 12-05-2017: 5000

Lab Name: CSL Madhavaram Lab In Charge: D Mankandan Sample Priority: High

Parameters needed to be tested for: KV@40 KV@100 VISCOSITY INDEX FOAMING Test,Tend/Stab- Seq I FOAMING Test,Tend/Stab-Seq II FOAMING Test,Tend/Stab-Seq III DEMULSIBILITY Specify additional parameters to be tested for (if any)

FLASH POINT TAN WEAR METAL APPEARANCE

Comments on Sample Comments on Priority

Lab Received Remarks Sample sent to R&D for wear metal analysis



1.2.2.3 Sent by Lab:

Go to **Servo CMP**→**Reports**→**Sent by Lab**

TSE can view the summary of the samples for which data have been entered by the Lab in Charge of the respective LAB.
The records are appearing with different color with respect to type of priority.

PRIORITY → NORMAL MEDIUM HIGH Single Sample Type → Normal Sample Type →

[Samples Sent by LAB](#)

Filter:
 Select Customer*
 Select Department*
 Select Application*
 Select Product*

Search By

Show 10 entries

SAMPLING TYPE	EDIT SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT	QTY DRAWN(Ltr.)	DRAWN DATE	CREATED ON
	23112018-10408	Stevenferzzz	DEPTTEST	TURBINE	01	MECHATEST	SERVO MESH SP 320	2341	23-11-2018	23-11-2018
	14042018-10268	RASHTRIYA ISPAT NIGAM LIMITED	LMMM	MORGOIL BEARING	1	HYDRAULIC SYSTEM, CELLAR-13	SERVO SYSTEM HLP 46 N	665	14-04-2018	14-04-2018
	15052018-10330	TESTCUSTOMER	FINANCE	TEST APP	1	TEST EQUIPMENT 2	SERVO MESH SP 320 1	964	15-05-2018	15-05-2018
	03122018-10412	Stevenferzzz	DEPTTEST	TEST APP	TK1	MECHATEST	SERVO STEEL 680 1	1200	03-12-2018	03-12-2018
	14042018-10269	RASHTRIYA ISPAT NIGAM LIMITED	LMMM	NTM	1	HYDRAULIC SYSTEM, CELLAR-13	SERVO SYSTEM HLP 46	665	14-04-2018	14-04-2018
	29042017-10491	RASHTRIYA ISPAT NIGAM LIMITED	WRM	DELETE	1	HYDRAULIC SYSTEM, CELLAR-9	SERVO SYSTEM HLP 46	500	29-04-2017	29-04-2017
	29042017-10490	RASHTRIYA ISPAT NIGAM LIMITED	WRM	APPLICATION1	1	HYDRAULIC SYSTEM, CELLAR-10	SERVO SYSTEM HLP 46	500	29-04-2017	29-04-2017
	29042017-10493	RASHTRIYA ISPAT NIGAM LIMITED	WRM	TURBO CHARGER	1	HYDRAULIC SYSTEM, CELLAR-3	SERVO SYSTEM HLP 46	500	29-04-2017	29-04-2017

After clicking on the sample ID, TSE can view the details of the test result entered by the LAB and can view the trend chart based on the available data. TSE can view the file if LAB uploads any file corresponding to that sample ID.



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Sample Test Results

Customer Name	RASHTRIYA ISPAT NIGAM LIMITED	Sample id	29042017-10483
Oil tested	SERVO SYSTEM HLP 46	Date of Sample	29-04-2017
IOC State Office	Western Region Office	Sample Tested at	CSL MADHAVARAM
IOC Field Officer Name	GOURAB SEN	Email ID	SENG@INDIANOIL.IN
Designation	IS Officer	Date of Oil Sampling	09-05-2017
User department	WRM	Sump Capacity (Liters)	4000
Equipment	HYDRAULIC SYSTEM CELLAR-3	Running Hrs	6666
OEM / Make	MORGAN	Date of Last Oil Change	july'16
Top-up Quantity	650		

Result from Market

TEST NAME	TEST METHOD	SPEC	No Data	No Data	09-05-2017	Units
KV@40	ASTM D 445	43.5 ≤ x ≤ 47.5	-	-	45	csst
FOAMING Test,Tend/Stab- Seq I	ASTM D 892	≤ 00	-	-	40/0	ml
TAN	ASTM D 664/974	≤ 0.5	-	-	0.51	mg KOH/gm
FLASH POINT (COC)	ASTM D 92	≥ 204	-	-	210	Deg c
APPEARANCE	visual		-	-	Clear	visual
FOAMING Test,Tend/Stab-Seq II	ASTM D 892	≤ 00	-	-	0/0	ml
VISCOSITY INDEX	ASTM D 2270	≥ 98	-	-	103	
KV@100	ASTM D 445	± 6.7 (10%)	-	-	6.00	csst
FOAMING Test,Tend/Stab-Seq III	ASTM D 892	≤ 00	-	-	0/0	ml
DEMULSIBILITY	ASTM D 1401	≤ 15	-	-	20	min

1.2.2.4 Sent to Customer:

Go to **Servo CMP**→**Reports**→**Sent To Customer**

TSE can view the summary of the samples for which mails have been sent to respective customers.

IndianOil Home Servo CMP Servo OTS Masters

PRIORITY → NORMAL MEDIUM HIGH CSL LAB Type → CSL RND LAB Type → RND

Send CMP Sample to Customer

Filter:

Select Customer Select Customer Select Department Select Department Select Application Select Application Select Product Select Product

Search By

Search Records by Product Name

Excel Column visibility

LAB TYPE	EDIT SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT	QTY DRAWN(Ltr)	DRAWN DATE	CREATED ON
CSL	16052018-10331	ESSARSTEEL	CRM	GEAR	1	EQUIPMENT 1	SERVO MESH SP 320 10	1000	16-05-2018	16-05-2018
CSL	20092018-10370	STEVEN FERNZZ	DEPTTEST	TURBINE	01	MECHATEST	SERVO MESH SP 320	500	20-09-2018	20-09-2018
RND	21092018-10371	FERNANDESSTEVEN	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	SPEAR CHARGES	500	21-09-2018	21-09-2018
RND	03102018-10386	FERNANDESSTEVEN	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	STEVENSSONS	630	03-10-2018	03-10-2018
RND	03102018-10389	FERNANDESSTEVEN	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	STEVENSSONS	680	03-10-2018	03-10-2018
RND	03102018-10390	FERNANDESSTEVEN	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	STEVENSSONS	650	03-10-2018	03-10-2018
CSL	08102018-10391	INDICUST1	INDICUST1DEPT1	APPLICATION1	1	EQUIPMENT1	PRODUCT2	20001	08-10-2018	08-10-2018
CSL	28112018-10409	FERNANDESNICK	NEWDEPARTMENT	TEST APP	001	NICK'S EQUIPMENT	SERVO MESH SP 320	800	28-11-2018	28-11-2018

After clicking on the sample ID, TSE can view the details of the test result entered by the LAB and can view the trend chart based on the available data along with the file mailed to the customer with the link under “**CMP Test Report**”. TSE can resend the mail to the customer.



TSE Final Remarks

sample is fit

CMP Test Report: [29042017-10497](#)

Send Mail

1.3.5 Mapping of Customer & SAP code

Go to **Masters**→**Customer-SAP Mapping**

Home Servo CMP Masters

Select Customer: JINDAL STEEL ✕ Add SAP Codes

Select Customer...

Summary Get Data

Customer Name	Sap code	Update By	Update On
No data available in table			

Showing 0 to 0 of 0 entries Previous Next

Here, on selecting customer, its SAP code mapped to it will be displayed.



The screenshot shows the IndianOil Servo CMP interface. At the top, there's a navigation bar with 'Home', 'Servo CMP', and 'Masters'. Below this, a 'Select Customer:' dropdown is set to 'test2customer'. To the right is an 'Add SAP Codes' button. Below the dropdown are five buttons labeled 'SAP code #1' through 'SAP code #5' with values 10123, 021512345, 245121, 282929, and 252525 respectively. A 'Summary' section contains a table with columns: Customer Name, Sap code, Update By, and Update On. The table is currently empty, showing 'No data available in table'. At the bottom, it says 'Showing 0 to 0 of 0 entries' with 'Previous' and 'Next' buttons.

On clicking the SAP code a modal will appear for editing the given SAP code.
If a new SAP code needs to be added, then click **Add SAP Codes** for adding.

The screenshot shows the 'Add Customer' modal. It has a title bar with a close button. Below the title is an 'Add more SAP Codes' button. The main area contains a table with three columns: 'Cust No. *', 'SAP No.*', and 'Remove'. The 'Cust No. *' column has three rows, all with the value 'test2customer'. The 'SAP No.*' column has three rows, all with the placeholder text 'Enter SAP code'. The 'Remove' column has three rows, each with a red 'X' icon. At the bottom of the modal, there's a footer with 'IndianOil.in' on the left and 'Cancel' and 'Add SAP' buttons on the right.

On clicking the add button, this modal will pop up for adding multiple SAP code against the given customer.

Add more SAP Codes For adding more rows

X For remove the aligned row

1.3.6 Customer Summary



Customer Summary is page for viewing the details of all the customer. Here the user selects a customer in 'Select Customer' and clicks on search. On search, the department under that customer will display in the table and also display how much sample the customer has received and total SAP code created for that customer.

The TSE can also change the customer name by clicking on customer change button.

For changing the customer Name kindly select the customer in the dropdown beside it. Once selected, a modal will appear for entering the new customer name.

1.3.7 Test Specification

For checking if the product used for creating a tank has valid test parameters mapped or not.

Product Name	Test Name	Value Check	MIN	MAX	EQUAL	DEVIATION	MAX (DELBRETER)	OTHER	Updated By	Updated Date
SERVOMESH SP 320 10	KV@40	321 <= x <= 347	321	347	N/A	N/A	347	N/A	S07469	12-NOV-2018 03:16:32 PM
SERVOMESH SP 320 10	WEAR METAL	<= 70	N/A	70	N/A	N/A	70	N/A	S07469	03-DEC-2018 11:51:46 AM
SERVOMESH SP 320 10	APPEARANCE		N/A	N/A	N/A	N/A	N/A	YNA	SYSTEM	24-APR-2018 10:10:46 AM
SERVOMESH SP 320 10	TEST1251	>= 123	123	N/A	N/A	N/A	N/A	N/A	17662	29-MAY-2018 10:06:09 AM
SERVOMESH SP 320 10	CSD	<= 80	N/A	80	N/A	N/A	80	N/A	S07469	21-SEP-2018 10:33:27 AM
SERVOMESH SP 320 10	KV@100	> 24.1 (10%)	N/A	N/A	24.1	10	N/A	N/A	SYSTEM	24-APR-2018 10:10:46 AM
SERVOMESH SP 320 10	BLAH	<= 80	N/A	80	N/A	N/A	80	N/A	S07469	11-DEC-2018 03:50:08 PM
SERVOMESH SP 320 10	JUST TO TEST YES	12 <= x <= 18	12	18	N/A	N/A	18	N/A	S07469	03-DEC-2018 11:52:30 AM
SERVOMESH SP 320 10	VISCOSITY INDEX	>= 90	90	N/A	N/A	N/A	N/A	N/A	17662	29-MAY-2018 10:10:50 AM
SERVOMESH SP 320 10	FOAMING Test, Tensile, Sec1	<= 50	N/A	50	N/A	N/A	50	N/A	SYSTEM	24-APR-2018 10:10:46 AM

This is a read only page. For editing/mapping the test parameters, kindly inform the respected TSE Admin for mapping/editing the required product.



1.3.8 Test Parameter Status

In this page the TSE can check for the test parameter of individual labs. E.g. Checking if Test Params (KV@40) is available at a CSL Lab or not. A validation is also filtered during the creation of a sample to keep in check a sample is not created if the lab cannot do a test on the given sample.

The screenshot shows the 'Test Parameter's Status in particular Lab(s)' page in the IndianOil Servo CMP application. The page has a header with the IndianOil logo and navigation links. Below the header, there's a dropdown menu for 'Select LAB' with 'NEW CLASS' selected. A search bar is also present. The main content is a table with 10 rows of test parameters. Each row has columns for 'TEST ID', 'TEST NAME', 'CREATED BY', and 'ACTIVE STATUS'. All 'ACTIVE STATUS' cells contain a green circle icon, indicating that the tests are available for the selected lab.

TEST ID	TEST NAME	CREATED BY	ACTIVE STATUS
1	KV@40	SYSTEM	●
2	KV@100	SYSTEM	●
3	VISCOSITY INDEX	SYSTEM	●
4	FOAMING Test,Tend/Stab- Seq I	SYSTEM	●
5	FOAMING Test,Tend/Stab-Seq II	SYSTEM	●
6	FOAMING Test,Tend/Stab-Seq III	SYSTEM	●
7	DEMULSIBILITY	SYSTEM	●
8	FLASH POINT (COC)	SYSTEM	●
9	TAN	SYSTEM	●
10	WEAR METAL	SYSTEM	●

The green icon in the last column signifies for the test is available for the selected lab (from the dropdown) whereas a red icon signifies for inactive status.

2.0 Existing Features/Functionalities Modified

This is the first release.

3.0 Existing Features/Functionalities Removed

This is the first release.

4.0 Issues Resolved(Bugs If any)

This is the first release.