

Non-NGCM sample processing guidelines for modified LMS application

This is to inform that Laboratory Management System (LMS) module of OCBIS has been modified with enhancement of functionalities based on the user feedback. The modifications are done primarily to accommodate requirements of non-NGCM samples submission. The modified LMS will be made available for use from 13.03.2018 onwards.

Users are requested to adopt the following processes in LMS from 13.03.2018 onwards.

1. Submission of non-NGCM FSP Sample to chemical laboratories:

- a) Select 'Non-NGCM Analysis' radio button.
- b) Select appropriate option of "Analysis type / Jobs to be done " from drop down list. List of elements / compounds/ ions against a particular "Analysis name / Job description" has been obtained from the competent authority (attached as Annexure 1).
- c) Click on the checkbox/es to select the specific oxides/elements/ions to be analyzed as per need.
- d) Select "NQT item to be mapped" from drop down list if necessary.
- e) Select expected dates of physical submission / test completion, if necessary.
- f) Provide sample weight if necessary.
- g) Provide any note or remark to convey to the Laboratory Director, if necessary.
- h) Upload any document regarding the sample/analysis if necessary.
- i) Users may declare if any previous study has been done on the sample
- j) Select the appropriate radio button regarding the sample preparation
- k) Click on "Add" Button.
- l) The entered information will be added as a row in the table below
- m) To submit another set of oxides/elements/ions for **same sample**, remain in **same window** and follow b) to j).

New Screen:

HOME
RAJBHASHA456
MDM456
CORE APPS
SUPPORT APPS
REPORTS
TASK BOARD
EMPLOYEE LIST BY ROLE
TEST12456
CONSOLIDATED TASKLIST456

SELECT AND ADD LAB

Assign to own laboratory Assign to outside laboratory

<p>* Laboratory Type: Chemical</p> <p>* Laboratory Name: Central Chemical Laborato</p> <p>* Chemical Study Type: <input type="radio"/> NGCM Analysis <input checked="" type="radio"/> NON-NGCM Analysis</p> <p>* Analysis Type / Jobs to be done: --Please Select--</p> <p>NQT Item To Be Mapped: --Please Select--</p>	<p>Expected Start Date of Physical Sample Submission: <input type="text"/></p> <p>Expected End Date of Physical Sample Submission: <input type="text"/></p> <p>Expected Date Of Test Completion: <input type="text"/></p> <p>Sample Weight: <input type="text"/></p> <p>Remarks / Sample Description / Any Special Requirement: <div style="border: 1px solid #ccc; height: 40px; width: 100%;"></div></p> <p>Upload Documents: <input type="button" value="Choose file"/> No file chosen</p>
<p>Previous Test Details</p> <p>Any previous test involved <input type="checkbox"/></p>	<p>Sample Preparation Details</p> <p>Choose from below <input type="radio"/> Sample preparation done by Geo-Scientist <input checked="" type="radio"/> Sample preparation not done by Geo-Scientist</p>

Laboratory Type	Laboratory Name	Analysis Type / Jobs to be done	NQT Item To Be Mapped	Expected Start Date of Physical Sample Submission	Expected End Date of Physical Sample Submission	Expected Date Of Test Completion	Laboratory Name	Type Of Analysis	Remarks	Chemical Study Type	Details Of Approval	Items
No data to display.												

Analysis dropdown has been made available for laboratories even if the analysis cannot be done in that particular lab (for unavailability of the instrument). In that scenario, laboratory personnel will either redirect or return the samples as the case may be.

2. Lab Director Tasklist Page:

Based on the user feedback, the following features have been added:

- a) Tasklist of Lab directors includes only those analysis types which have pending samples
- b) Instrument Name is shown on Tasklist
- c) Lab director now can select the Instrument that will be used for analysis. The following steps are to be followed:
 1. Click on the checkbox against samples at leftmost column
 2. Look at the instrument name column
 3. Click approve button. (A new window will open)
 4. Modify the instrument name by selecting from dropdown list if necessary.
 5. Select Laboratory analyst name from dropdown list.
 6. Select 'Due date' if necessary.
 7. Click OK button for final approval.

HOME RAJBHASHA456 MDM456 CORE APPS SUPPORT APPS REPORTS TASK BOARD EMPLOYEE LIST BY ROLE TEST12456 CONSOLIDATED TASKLIST456

Lab Summary

Laboratory Name: MIA-MCS: Chemical Labor Station: M&CSD EAST COAST I, Kolkata

Type Of Analysis	Total Sample Count
Chemical Analysis of Sediments - Marine (Offboard)	1
Chemical Analysis of Sediments - Marine (Onboard)	13
Excess (+) and Deficient (-) CP CaO and MgO with respect to CO2 - Marine (Offboard)	1
Trace Element Analysis (By AAS) - Marine (Offboard)	10
Trace Element Analysis (By Spectrograph) - Marine (Offboard)	5

BACK

HOME RAJBHASHA456 MDM456 CORE APPS SUPPORT APPS REPORTS TASK BOARD EMPLOYEE LIST BY ROLE TEST12456 CONSOLIDATED TASKLIST456

Sample Details

FSP ID: MIASTM/CER/SU-WBAN201748941 Type of Analysis: Trace Element Analysis (By AAS) - Marine (Offboard)

State of Sample: Samples Physically Receiv

Sample Details

View Select All Detach

Select	Lab Sample ID	L/A Id	Sample Number	Redirected Lab Name	Lab Sample Status	Test Result	Instrument Name
<input type="checkbox"/>	MIASTM/CER/SU-WBAN201748941/S...	...	bn	Empty	Physically submitted	Test Result	XRF

APPROVE RETURN SEND FOR SAMPLE PROCESSING REDIRECT BACK

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Sample Details

FSP ID M1ASTM/C/ER/SU-WBAN/2017/48941 Type of Analysis Trace Element Analysis (By AAS) - Marine (Offboard)

State of Sample Samples Physically Received

Sample Details

View Select All Detach

Select	Lab Sample ID	Instrument Name	Due Date Of Test Completion
<input checked="" type="checkbox"/>	M1ASTM/C/ER/SU-WBAN/2017/48941/S...	XRF	

Sample Acceptance and Allocation

Instrument Name --Please Select--

Laboratory Analyst Name --Please Select--

OK Cancel

PROCESSING REDIRECT BACK

3. Lab Analyst Tasklist

Like the Lab Director Tasklist, changes have also been made to the Lab Analyst Tasklist

- 1) Tasklist of Lab Analysts include only those analysis types which have pending samples
- 2) Instrument Name is visible on Tasklist
- 3) Instrument Name can be modified by lab Analyst using Change Instrument button
- 4) Laboratory analysts can choose units of measure from dropdown while submitting results

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Lab Details

Laboratory Name Central Chemical Laborato

Total Sample Count Details

View Detach

Sr. No.	Analysis Method	Total Sample Count
1	Major Oxides (XRF Instrumental Analysis)	3
2	Package A	11
3	Package D	60
4	Package F	10
5	Trace Elements (XRF Instrumental Analysis)	2

BACK

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Sample Details
 FSP ID: M1AGCS-GCMNC/SR/SU-KG-2018/49502 Lab Study Description: Major Oxides (XRF Instrumental Analysis) Lab Name: Central Chemical Laboratory - I, Kolkata

Batch Number: All

Enter Standard Sample

Sample Assigned
 View: Select All Detach

Lab Sample ID	Type of Sample	Sample Number	Location	Batch Number	Status	Instrument Name	Copy Sample
M1AGCS-GCMNC/SR/SU-KG-2018/49502/SampleID/0005/2518/151195	Empty	13	Empty		Analysis in Progress	AAS with FIAS	Copy Sample

RETURN **CHANGE INSTRUMENT** SUBMIT TEST RESULT BACK REFRESH

*IF YOU HAVE PERFORMED FUNCTIONALITIES : COPY(Repeat) SAMPLE / STANDARD SAMPLE/ CHANGE INSTRUMENT THEN TO VIEW THE CHANGES PLEASE CLICK REFRESH BUTTON

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HOME RAJBHASHA456 MDM456 CORE APPS SUPPORT APPS REPORTS TASK BOARD EMPLOYEE LIST BY ROLE TEST12456 CONSOLIDATED TASKLIST456

Sample Details
 FSP ID: M1AGCS-GCMNC/SR/SU-KG-2018/49502 Lab Study Description: Major Oxides (XRF Instrumental Analysis) Lab Name: Central Chemical Laboratory - I, Kolkata

Batch Number: All

Enter Standard Sample

Sample Assigned
 View: Select All Detach

Change Instrument

Instrument Name

- AAS with FIAS
- XRF
- DMA
- Flame AAS
- AAS with FIAS**
- ISE
- GF-AAS(Au)
- ICP-MS

cancel

Lab Sample ID	Type of Sample	Sample Number	Location	Batch Number	Status	Instrument Name
M1AGCS-GCMNC/SR/SU-KG-2018/49502/SampleID/0005/2518/151195	Empty		Empty		Analysis in Progress	AAS with FIAS

RETURN CHANGE INSTRUMENT SUBMIT TEST RESULT BACK REFRESH

*IF YOU HAVE PERFORMED FUNCTIONALITIES : COPY(Repeat) SAMPLE / STANDARD SAMPLE/ CHANGE INSTRUMENT THEN TO VIEW THE CHANGES PLEASE CLICK REFRESH BUTTON

the Download section below.

Download

Sample Chemical Spreadsheet

Sample Analysis Report

Upload Test Results No file chosen

Sr. No.	Document Name	Remove
No Files Found		

Download	Remove
No Files Found	

Analysis Result Output Parameter

Result Item Name	Result Item Value	Unit of Measure	ExcelStatus
MnO	<input type="text"/>	ppm	
Na2O	<input type="text"/>	ppm	

SAVE OWN LAB DIRECTOR REVIEW REDIRECTED LAB DIRECTOR REVIEW FIELD GEOLOGIST / PROJECT DIRECTOR REVIEW Print CANCEL

4. Machine Utilization Report

- 1) For Chemical Laboratory, machine utilization report will be against a particular instrument used for analysis. Previously this report used to be against NGCM Packages only

New Screen

Monthly Machine Utilization

Lab Instruments

- [AAS with FIAS](#)
- [DMA](#)
- [Flame AAS](#)
- [GF-AAS\(Au\)](#)
- [ICP-MS](#)
- [ISE](#)
- [XRF](#)

*PLEASE CLICK ON THE INSTRUMENT NAME TO VIEW THE REPORT DETAILS

Instrument Name: AAS with FIAS

Month: Feb

Year: 2,018

No of Chemists: 15

No of Instruments: 1

Monthly Capacity Chemist: 100

Monthly Capacity Machine: 300

No of Person Req For Optimal Capacity: 3

NGCM Analysis Name: Package D

Samples Received NGCM: 0

Samples Received Non NGCM: 43

Samples Analysed NGCM: 0

Samples Analysed Non NGCM: 0

No of SRMs: 0

Samples Repeated: 0

Diverted Lab Name: NA

Samples Diverted NGCM: 0

Samples Diverted Non NGCM: 0

Pending Samples NGCM: 42

Pending Samples Non Ngcm: 1

Total Monthly Output: 0

Capacity Utilization Percentage: 0

Remarks: NA

Please click here to provide data for samples before 2

Report Processing Submit Back

Probable temporary im pact of modifications on functioning of the LMS module:

With changes in the module, there will be the need to migrate the existing data pertaining to Non-NGCM Analysis. During this migration, data may not be fully visible in LMS. This may impact work in the following cases:

- Lab Analyst while submitting sample results
- Lab director while approving sample results
- Lab director while redirecting samples to other lab
- Project Director / Geologists while approving sample results

For any inconvenience, users need to take the matter with OCBIS helpdesk. There will not be any impact on new sample submission.

Annexure 1.

Analysis Name	Elements/ Oxides/ Ions	Instrument
Instrumental Major Oxides	Oxides- 10 elements (WRA)= SiO ₂ (%), Al ₂ O ₃ (%), Fe ₂ O ₃ (%), TiO ₂ (%), CaO (%), MgO (%), MnO (%), Na ₂ O (%), K ₂ O (%), P ₂ O ₅ (%) (Selective option)	XRF
Instrumental Trace Elements	Strategic Trace elements- Ba (mg/Kg), Ga (mg/Kg), Nb (mg/Kg), Rb (mg/Kg), Sc (mg/Kg), Sr (mg/Kg), Th (mg/Kg), V (mg/Kg), Y (mg/Kg), Zr (mg/Kg) (Selective option)	XRF
Rare Earth Elements	REE (14 elements)- La (mg/Kg), Ce (mg/Kg), Pr (mg/Kg), Nd (mg/Kg), Eu (mg/Kg), Sm (mg/Kg), Tb (mg/Kg), Gd (mg/Kg), Dy (mg/Kg), Ho (mg/Kg), Er (mg/Kg), Tm (mg/Kg), Yb (mg/Kg), Lu (mg/Kg), (Selective option)	ICPMS
ICPMS Trace Elements	Other trace elements: Be (mg/Kg), Ge (mg/Kg), Sn (mg/Kg), Hf (mg/Kg), Ta (mg/Kg), U (mg/Kg), Mo (mg/Kg), In (mg/Kg), Sb (mg/Kg), Te (mg/Kg), Cs (mg/Kg), W (mg/Kg), Tl (mg/Kg), Bi (mg/Kg), Nb (mg/Kg), Rb (mg/Kg), Sc (mg/Kg), Sr (mg/Kg), Th (mg/Kg), Y (mg/Kg), Zr (mg/Kg) (Selective option)	ICPMS
Base Metal Trace Elements	Base metal trace elements : Co (mg/Kg), Cr (mg/Kg), Cu (mg/Kg), Ni (mg/Kg), Pb (mg/Kg), Zn (mg/Kg), Ag(mg/Kg), Cd(mg/Kg),, Lithium(mg/Kg),,, Cs(mg/Kg),,, Fe(mg/Kg),,, Mn(mg/Kg), (Selective option)	AAS-Flame
Gold	AU	AAS-GTA
Fluoride	F	ISE
Hydride Elements	Hydride elements: As(mg/Kg), Sb(mg/Kg), , Bi(mg/Kg), Se(mg/Kg), (Selective option)	AAS-VGA/FIAS
Mercury	Hg	DMA
Precious Elements	PG Elements: Au, Pt, Pd, Os, Rh,Ir,Ru (Selective option)	FA-GTA / ICPMS
Wet Classical Major Oxides	Wet Classical analysis: SiO ₂ (%), Al ₂ O ₃ (%), Fe ₂ O ₃ (%), TiO ₂ (%), CaO (%), MgO (%), MnO (%), Na ₂ O (%), K ₂ O (%), P ₂ O ₅ (%), FeO, BaO, SO ₃ , Cr ₂ O ₃ , V ₂ O ₅ , Reactive Silica, Total Fe%, Iodide, Bromide, Fluoride, Fixed Carbon etc (Selective option)	Classical Method
Water Analysis Group A	Wet: pH, E.C. (μS/cm), TDS (ppm), Na ⁺ (ppm), K ⁺ (ppm), Ca ⁺⁺ (ppm), Mg ⁺⁺ (ppm), T.H as CaCO ₃ , SiO ₂ (ppm), HCO ₃ ⁻ (ppm), CO ₃ ⁻ (ppm), NO ₃ ⁻ (ppm), Cl ⁻ (ppm), SO ₄ ⁻ (ppm), OH ⁻ (ppm), PO ₄ ⁻ (ppm), (Selective option)	Classical Method
Water Analysis Group B	As, Sb, Bi, Se, Cu, Pb , Zn, Ni, Co, Cr, Ag, Cd, Lithium, Cs, Fe, Mn (Selective option)	AAS
Water Analysis Group C	Fluoride	ISE
Water Analysis Group D	Hg	DMA
Water Analysis Group E	All 58 Elements that can be analysed by ICPMS	ICPMS