ANNEXURE I

<table>
<thead>
<tr>
<th>Module</th>
<th>Component</th>
<th>Requirement No.</th>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.001</td>
<td></td>
<td>Form for Application for Registration of Warehouse should allow Warehouseman to enter the required information.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.002</td>
<td></td>
<td>Query different warehouses for a Warehouseman using their identifier.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.04</td>
<td></td>
<td>Application for Registration of Warehouse should allow Warehouseman to upload all required documents.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.05</td>
<td></td>
<td>Application for Registration of Warehouse should allow Warehouseman to pay non-refundable application fee via payment gateway made available in Online Portal.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.06</td>
<td></td>
<td>Application for Registration of Warehouse should be digitally signed before submission.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.07</td>
<td></td>
<td>In case of Individual entity, Application for Registration of Warehouse should authenticate applicant using OTP based AADHAR verification.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.08</td>
<td></td>
<td>In case of Non-Individual entity, digital signature of authorized representative of the entity should be attached to the application.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.09</td>
<td></td>
<td>Generate unique acknowledgement number on successful completion &amp; submission of application for registration.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.10</td>
<td></td>
<td>On approval of application for registration, WDRA should issue Certificate of Registration and generate a user login for the warehouseman on the WDRA portal.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.11</td>
<td></td>
<td>Process application for registration, using the defined approval hierarchy, through integrated workflow.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.12</td>
<td></td>
<td>WDRA should receive a notification message on submission of application form for registration of warehouse by Warehouseman.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.13</td>
<td></td>
<td>Application / Warehouseman should be able to see the status and details of the applications it submits for registration of warehouse.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.14</td>
<td></td>
<td>WDRA should be able to see the status and details of the applications submitted by all Warehousemen for registration of warehouses.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.15</td>
<td></td>
<td>Allow edit of specific information for warehouse by warehouseman.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.16</td>
<td></td>
<td>Renewal of Registration of Warehouse should allow warehouseman to query using their identifier and Registration Number.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.17</td>
<td></td>
<td>System should not allow renewal of Registration of Warehouse by Warehouseman more than a (configurable) time interval prior to expiry of registration.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.18</td>
<td></td>
<td>If application for Renewal of Registration of Warehouse is attempted by Warehouseman within the (configurable) time interval of expiry of registration of warehouse, system should display all the information entered during the registration of warehouse.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.19</td>
<td></td>
<td>Application for Renewal of Registration of Warehouse should allow Warehouseman to edit/modify information in case there is a change in information between Registration of Warehouse and Renewal of Registration of Warehouse.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.20</td>
<td></td>
<td>Application for Renewal of Registration of Warehouse should allow Warehouseman to upload required documents only in case there is a change in information between Registration of Warehouse and Renewal of Registration of Warehouse.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.21</td>
<td></td>
<td>Application for Renewal of Registration of Warehouse should be digitally signed before submission.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.22</td>
<td></td>
<td>In case of Individual entity, Application for Renewal of Registration of Warehouse should authenticate applicant using OTP based AADHAR verification.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.23</td>
<td></td>
<td>In case of Non-Individual entity, digital signature of authorized representative of the entity should be attached to the application.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.24</td>
<td></td>
<td>Generate unique acknowledgement number on successful completion &amp; submission of application for renewal of registration.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.25</td>
<td></td>
<td>Renewal of Registration of Warehouse should provide option to WDRA to go through the online reports of past inspections conducted for the warehouse, once WSP submits application for Renewal of Registration of Warehouse.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.26</td>
<td></td>
<td>Renewal of Registration of Warehouse should provide option to WDRA to go through the online grievance history for the warehouse, once Warehouseman submits application for Renewal of Registration of Warehouse.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.27</td>
<td></td>
<td>On approval of application for renewal of registration, Renewal of Registration of Warehouse should allow WDRA to issue Certificate of Renewal of Registration.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.28</td>
<td></td>
<td>Process application for renewal of registration, using the defined approval hierarchy, through integrated workflow.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.29</td>
<td></td>
<td>WDRA should receive a notification message on submission of application for renewal of registration of warehouse by Warehouseman.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.30</td>
<td></td>
<td>Application for Renewal of Registration of Warehouse should be digitally signed before submission.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.31</td>
<td></td>
<td>In case of Individual entity, Application for Renewal of Registration of Warehouse should authenticate applicant using OTP based AADHAR verification.</td>
</tr>
<tr>
<td>Portal Warehouse</td>
<td>PWH.REQ.32</td>
<td></td>
<td>In case of Non-Individual entity, digital signature of authorized representative of the entity should be attached to the application.</td>
</tr>
</tbody>
</table>
generate unique acknowledgement number on successful completion & submission of application for surrender of registration of warehouse. WDRA should receive a notification message on successful submission of application form for surrender of registration of warehouse. Application/ Warehouseman should receive a notification message on approval, rejection and update of comments section of application form by WDRA.

Warehouseman should be able to see the status and details of the applications it submits for surrender of registration of warehouse. WDRA should be able to see the status and details of the applications submitted by all Warehouseman for surrender of registration of warehouses. Warehouse Module should be integrated with payment gateway.

Process application for surrender of registration, using the defined approval hierarchy, through integrated workflow. WDRA should receive a notification message on submission of application form for surrender of registration of warehouse by Warehouseman.

On approval of application for surrender of registration, allow WDRA to issue Certificate of Registration and generate a login for the Inspection Agency in the WDRA online portal.

Generate unique acknowledgement number on successful completion & submission of application for registration of inspection agency. WDRA should receive a notification message on submission of application form for registration of inspection agency by WSP.

In case of Individual entity, Application for Registration of Inspection Agency should digitally signed before submission. In case of Non-individual entity, digital signature of authorized representative of the entity should be attached to the application.

Generate unique registration number, for each inspection agency, on approval of application for registration. The unique registration number should be alphanumeric and with a check digit at the end.

On approval of application for registration, allow WDRA to issue Certificate of Registration and generate a login for the Inspection Agency in the WDRA online portal.

Process application for registration of inspection agency using integrated workflow. WDRA should receive a notification message on submission of application form for registration of inspection agency by WSP. Applicant should receive a notification message on approval, rejection and update of comments section of application form by WDRA.

Process application for suspension of warehouse should allow query officer (WDRA official or outsider) to enter information with relevant documents.

Application for suspension of warehouse should allow WDRA official to fill up information against the parameters in Suspension Checklist.

Application for suspension of warehouse should allow WDRA official to digitally sign the Inspection Report before uploading it in Online Web Portal.

PWH.REQ.034 Submission of Inspection Report of Repository should allow Inspecting Officer to upload scanned copy of supporting documents against the information entered in Inspection Checklist.

PWH.REQ.037 Submission of Inspection Report of Warehouse should allow Inspecting Officer to digitally sign the Inspection Report before uploading it in Online Web Portal.

PWH.REQ.040 Calculate security deposit for warehouse based on defined parameters e.g. value of e-NWRs issued, etc.

PWH.REQ.041 Process application for cancellation using integrated workflow.

Warehouse Module should be integrated with payment gateway.

On approval of application for registration, allow WDRA to issue Certificate of Registration and generate a login for the Inspection Agency in the WDRA online portal.

Generate unique registration number, for each inspection agency, on approval of application for registration. The unique registration number should be alphanumeric and with a check digit at the end.
<table>
<thead>
<tr>
<th>Module</th>
<th>Requirement</th>
<th>Description</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection Agency</td>
<td>PIA.REQ.024</td>
<td>On approval of Inspection Report of Repository submitted by Inspecting Officer, System should allow Inspection Agency to raise invoice to WDRA against which WDRA can make payment of the inspection fee to the Inspection Agency.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Inspection Agency</td>
<td>PIA.REQ.025</td>
<td>On approval of Inspection Report of repository submitted by Inspecting Officer, System should allow WDRA to change the Status of Inspection to 'Closed'. Inspection Agency should receive a notification message upon change of Status.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Inspection Agency</td>
<td>PIA.REQ.026</td>
<td>WDRA should be able to see the status and details of the inspection report it submits to WDRA post inspection of repository.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Inspection Agency</td>
<td>PIA.REQ.027</td>
<td>Inspection Agency Module should be integrated with payment gateway.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.001</td>
<td>Allow upload &amp; submission of Internal Audit Report (Review, Monitoring and Evaluation of Repository Systems and Controls) of Repository</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.002</td>
<td>On acceptance of Audit Report of repository submitted by Internal Auditor, System should allow WDRA to change the Status of Internal Audit to 'Closed'.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.003</td>
<td>Internal Auditor should be able to see the status and details of the internal audit report it submits to WDRA post monitoring, review and evaluation of repository systems, controls.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.004</td>
<td>Allow upload &amp; submission of External Audit Report (Review, Monitoring, Review and Evaluation of Repository Systems and Controls) of Repository</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.005</td>
<td>On acceptance of Audit Report of repository submitted by External Auditor, System should allow WDRA to change the Status of Inspection to 'Closed'.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.006</td>
<td>External Auditor should be able to see the status and details of the external audit report it submits to WDRA post monitoring, review and evaluation of repository systems, controls.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.007</td>
<td>Repository module should provide a protocol for secure transfer of regulatory reporting data at a regular frequency.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Repository</td>
<td>PREP.REQ.008</td>
<td>Repository module should provide facility to check the Regulatory Report sent by Repository to WDRA.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.001</td>
<td>Portal should allow stakeholders to create guest account after entering required information. Account should be created only after Verification through mobile OTP or email activation link.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.002</td>
<td>WDRA portal should allow online payment services through integration with a standard Payment Gateway</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.003</td>
<td>Upon completion of registration process for warehouses, inspection agencies and repositories, the system should generate a login id for the WDRA portal and appropriately notify the stakeholders.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.004</td>
<td>Portal should facilitate secure login by stakeholders</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.005</td>
<td>Portal should provide allow stakeholders to reset their password.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.006</td>
<td>WDRA portal should allow standard online notification services through integration with a standard SMS gateway</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.007</td>
<td>Portal should provide search facility that enables the end user to search structured and unstructured data entered in Portal.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.008</td>
<td>Translation of Portal Content: Portal Content should be available in both English and Hindi.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.009</td>
<td>Portal should define role-based access control for all application functions secured by a login.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.010</td>
<td>Portal should provide Web Content Management functionality for creating &amp; managing content and integrate with a Content Management Framework</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.011</td>
<td>Portal should support access through multiple channels such as web-based access through the latest versions of the leading internet browsers on desktops, laptops &amp; notebooks and on mobile. Different functions that should be accessible on mobile shall be defined</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.012</td>
<td>Portal should be GIGW compliant.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.013</td>
<td>Portal should be designed using reusable components, such as portlets, that communicate using standard protocols such as Web Services for Remote Portlets (WSRP).</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.014</td>
<td>Portal should have an intuitive layout for easy access to content with no loss of fidelity across different renderers for the web &amp; mobile.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.015</td>
<td>Portal should enable access only through secure protocols such as SSL/TLS.</td>
<td>Phase 1</td>
</tr>
<tr>
<td>General</td>
<td>PGM.REQ.016</td>
<td>Portal should provide an unified application interface for all application functions with a centralized directory for authentication of user credentials</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Warehouse Management</td>
<td>WMS.REQ.001</td>
<td>System should provide form for tracking inward movement of commodities</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Warehouse Management</td>
<td>WMS.REQ.002</td>
<td>System should provide facility to issue e-NWR to depositors and synchronize this information with the repository</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Warehouse Management</td>
<td>WMS.REQ.003</td>
<td>System should provide a data entry screen for entry of warehouse quality parameters</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Warehouse Management</td>
<td>WMS.REQ.004</td>
<td>System should provide an API, using message formats published by WDRA, for back-end integration of the quality control information</td>
<td>Phase 1</td>
</tr>
<tr>
<td>Module</td>
<td>Component</td>
<td>Requirement No.</td>
<td>Requirement</td>
</tr>
<tr>
<td>-----------------</td>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Warehouse</td>
<td>General</td>
<td>WMS.REQ.005</td>
<td>System should automatically record the warehouse in the quality control record based on the login id</td>
</tr>
<tr>
<td>Warehouse</td>
<td>General</td>
<td>WMS.REQ.006</td>
<td>System should display the list of commodities for the user to select the commodity for inspection &amp; sampling</td>
</tr>
<tr>
<td>Warehouse</td>
<td>General</td>
<td>WMS.REQ.007</td>
<td>System should automatically determine the current category based on the parameters defined</td>
</tr>
<tr>
<td>Warehouse</td>
<td>General</td>
<td>WMS.REQ.008</td>
<td>System should compare the commodity grade at deposit with the corresponding commodity grade at inspection &amp; sampling to determine if curative and prophylactic treatment is required and enable these fields for data entry</td>
</tr>
<tr>
<td>Warehouse</td>
<td>General</td>
<td>WMS.REQ.009</td>
<td>System should display the quality control reporting history for a specific stack &amp; lot</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.001</td>
<td>Maintain multiple ledgers for double entry accrual accounting adhering to the Indian Public Sector Accounting Standards (IPSAS)</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.002</td>
<td>Define and create multiple heads such as “Salary”, “Other Expenses”, etc. for accounting of grants, receipts, expenses, etc.</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.003</td>
<td>Extract Trial Balance, Statement of Accounts and Balance Sheet across all heads and ledgers or for individual head</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.004</td>
<td>Availability of Monthly/Quarterly/Annual Period Closure with controls features if required</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.005</td>
<td>Ability of the system to generate a unique number to every possible transaction</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.006</td>
<td>Ability to create manual journal entries</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.007</td>
<td>Support following types of journals - Accrual, Recurring journals</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.008</td>
<td>Ability to create provisions for administrative expenses, payroll, depreciation, receipts etc.</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.009</td>
<td>Ability to automatically carry forward balances for balance sheet heads and reset all heads at the year-end closing.</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.010</td>
<td>Ability to record details of each vendor including bank details, payment method, payment terms etc. in Vendor registration form</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.011</td>
<td>Ability to record the receipt of invoices and expenses due for the reimbursement as part of payables</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.012</td>
<td>Preparation of payment proposal, its review and approval, followed by payment of due invoices</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.013</td>
<td>Ability to record details of each customer and create unique customer code for each customer</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.014</td>
<td>Capability to issue invoices, bills in Indian Rupee, printed in standardized format and according to the various billing cycles</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.015</td>
<td>Maintain Fixed Asset Register for all assets with depreciation information</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.016</td>
<td>Ability to print cheques with payment advice and make electronic payments to vendors &amp; statutory authorities</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.017</td>
<td>Ability to perform bank reconciliation using bank statement inputs</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.018</td>
<td>Manage list of employees with features such as induction on deputation or otherwise, transfers, leave management, etc.</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.019</td>
<td>Manage Payroll, with allocation of different salary components, deductions such as PF/NPS, calculation of taxes and electronic payment to employees</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.020</td>
<td>Create requisition, generate PO and record receipt of goods</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.021</td>
<td>Integration with Office Automation system for accounting of employee travel expenses</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.022</td>
<td>Generate Statement of Accounts and Balance Sheet as per defined formats</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.023</td>
<td>Integrate with Government of India PFMS system for recording utilization of grants</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.024</td>
<td>Facilitate audit of accounts</td>
</tr>
<tr>
<td>Internal</td>
<td>General</td>
<td>IAM.REQ.025</td>
<td>Migration of data for Finance &amp; Accounts, digitized office files</td>
</tr>
</tbody>
</table>

**ANNEXURE I PHASE II**

<table>
<thead>
<tr>
<th>Module</th>
<th>Component</th>
<th>Requirement No.</th>
<th>Requirement</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portal</td>
<td>E-learning</td>
<td>PELEC.REQ.001</td>
<td>Allow access to e-learning and e-certification content online through the Portal including facility to download the content.</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Portal</td>
<td>Complaint &amp; Dispute</td>
<td>PCG.REQ.001</td>
<td>Allow Complainant to register complaints while providing the necessary details. Upon successful validation, system should generate a unique complaint number (UCN)</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Portal</td>
<td>Complaint &amp; Dispute</td>
<td>PCG.REQ.002</td>
<td>System should send a notification message to the assignee of every complaint on registration of complaint</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Portal</td>
<td>Complaint &amp; Dispute</td>
<td>PCG.REQ.003</td>
<td>System should send a notification message to the complainant on update of information/resolution.</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Portal</td>
<td>Complaint &amp; Dispute</td>
<td>PCG.REQ.004</td>
<td>System should integrate with SMS gateway for sending the SMS notifications.</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Portal</td>
<td>Complaint &amp; Dispute</td>
<td>PCG.REQ.005</td>
<td>Complainant should have option to escalate complaint to WDRA by clicking on a check box ‘Escalate to WDRA’ in case complainant is not satisfied with the resolution provided by the assignee or in case complainant does not get any response from assignee within stipulated period of time.</td>
<td>Phase 2</td>
</tr>
</tbody>
</table>
The system should allow definition of metadata for different schema & view elements to facilitate metadata-based reporting & analysis.

The system should perform schema level validation of XML file and generate error in case of failures.

Phase 2

The system should be able to encrypt part and all of data.

DC.REQ.006

The system should allow searching of the metadata catalog, using metadata or part of report name, to find the different metadata objects.

DC.REQ.004

Phase 2

Every presentation view and business process should be defined as an application function which can be secured.

Phase 2

The system should support multiple types of schemas for reporting & data analysis – this includes dimensional & multi-dimensional schemas.

DC.REQ.005

DC.REQ.002

DC.REQ.014

Phase 2

The system should have the ability to consolidate & correlate data from multiple sources into a consolidated schema in the Monitoring & Surveillance database.

DC.REQ.008

Phase 2

The system should provide a catalog or repository for storing all metadata and facilitate version control in the catalog.

Phase 2

The system should enable basic transformations, such as data type conversions, string manipulations, column transformations and simple calculations based on user defined rules.

Phase 2

The system should have a de-normalized schema to make generation of reports easy & performant.

Phase 2

The system should have an asynchronous event mechanism to detect new data files in the staging area for subsequent processing using data integration tools.

Phase 2

The system should enable reconciliation of data between source systems and Monitoring & Surveillance database using captured metadata.

Phase 2

Data in transit (from external systems or between internal systems) or data at rest must be protected from tampering.

Phase 2

DC.REQ.016

The system should enable a staging area for repositories & warehouses to push regulatory reporting data at a pre-determined frequency. Data in the staging area will be stored in encrypted form.

Phase 2

Monitoring & Access Management

AM.REQ.001

Every presentation view and business process should be defined as an application function which can be secured.

Phase 2

Monitoring & Access Management

AM.REQ.002

Role based access control should be enforced for every application function as per the User Management framework for the Portal.

Phase 2

Monitoring & Access Management

AM.REQ.003

All activities of user shall be logged in System. The log among other shall include the user id, access date and time, transaction and type of accesses made. The log shall be linked to the Monitoring & Surveillance application record and available for access.

Phase 2

Monitoring & Data Collection

DC.REQ.001

The system should have the ability to consolidate & correlate data from multiple sources into a consolidated schema in the Monitoring & Surveillance database.

Phase 2

Monitoring & Data Collection

DC.REQ.002

The system should have the ability to perform data processing tasks such as data validation/ transformation/ standardization/ enrichment, etc. using defined business rules.

Phase 2

Monitoring & Data Collection

DC.REQ.003

The system should enable basic transformations, such as data type conversions, string manipulations, column transformations and simple calculations based on user defined rules.

Phase 2

Monitoring & Data Collection

DC.REQ.004

The system should have the ability to interact with standard file formats such as XML.

Phase 2

Monitoring & Data Collection

DC.REQ.005

The system should enable bulk acquisition or loading and processing of large sized data.

Phase 2

Monitoring & Data Collection

DC.REQ.006

The system should enable reconciliation of data from source systems and Monitoring & Surveillance database using captured metadata.

Phase 2

Monitoring & Data Analysis

DA.REQ.007

The system should be able to check incoming data for quality, consistency and validity.

Phase 2

Monitoring & Data Analysis

DA.REQ.009

Data in transit (from external systems or between internal systems) or data at rest must be protected from tampering.

Phase 2

Monitoring & Data Analysis

DA.REQ.010

The system should be able to encrypt part and all of data.

Phase 2

Monitoring & Data Analysis

DA.REQ.011

The system should provide a high performance computing (e.g. MapReduce) for processing large data sets with a parallel, distributed algorithm.

Phase 2

Monitoring & Data Collection

DC.REQ.012

The system should ensure that the raw data aggregated from other systems is not modified in any way, and all derived values, enrichment etc. are in addition to the raw data.

Phase 2

Monitoring & Data Collection

DC.REQ.013

The system should maintain audit trail of all data files processed and make this information available to the corresponding repositories and warehouses for reconciliation.

Phase 2

Monitoring & Data Collection

DC.REQ.014

The system should have an asynchronous event mechanism to detect new data files in the staging area for subsequent processing using data integration tools.

Phase 2

Monitoring & Data Collection

DC.REQ.015

The system should use standard data integration tools for the data collection process.

Phase 2

Monitoring & Data Collection

DC.REQ.016

The system should enable a staging area for repositories & warehouses to push regulatory reporting data at a pre-determined frequency. Data in the staging area will be stored in encrypted form.

Phase 2

Monitoring & Data Analysis

DA.REQ.001

The system should support multiple types of schemas for reporting & data analysis – this includes dimensional & multi-dimensional schemas.

Phase 2

Monitoring & Data Analysis

DA.REQ.002

The system should generate and maintain aggregate data for different metrics.

Phase 2

Monitoring & Data Analysis

DA.REQ.003

The system should allow definition of metadata for different schema & view elements to facilitate metadata-based reporting & analysis.

Phase 2

Monitoring & Data Analysis

DA.REQ.004

The system should allow definition of derived or computed columns for storing data that is derived or computed from data source elements.

Phase 2

Monitoring & Data Analysis

DA.REQ.005

The system should have a de-normalized schema to make generation of reports easy & performant.

Phase 2

Monitoring & Data Analysis

DA.REQ.006

The system should facilitate drill-downs within and across reports & alerts to facilitate seamless analysis.

Phase 2

Monitoring & Data Analysis

DA.REQ.007

The system should use advanced technology components, such as tables, pivot tables, graphs to facilitate visual & non-visual analytics.

Phase 2

Monitoring & Data Analysis

DA.REQ.008

The system should intuitively display large data sets, e.g. by paging or other appropriate mechanisms.

Phase 2

Monitoring & Data Analysis

DA.REQ.009

The system should seamlessly synchronize between the different types of schemas.

Phase 2

Monitoring & Data Analysis

DA.REQ.010

The system should allow dynamic changing of views e.g. from table to pivot table or graph without refresh of the page.

Phase 2

Metadata Catalog

MC.REQ.001

The system should provide a metadata editor for definition of metadata.

Phase 2

Metadata Catalog

MC.REQ.002

The system should support different types of metadata based on logical schema or presentation elements.

Phase 2

Metadata Catalog

MC.REQ.003

The system should provide a catalog or repository for storing all metadata and facilitate version control in the catalog.

Phase 2

Metadata Catalog

MC.REQ.004

The system should index all artefacts, such as alerts, MIS & Exception reports, by the different metadata defined.

Phase 2

Metadata Catalog

MC.REQ.005

The system should provide a private API to fetch all artefacts for a specific metadata subject to certain criteria such as date range, severity, etc.

Phase 2

Metadata Catalog

MC.REQ.006

The system should allow searching of the metadata catalog, using metadata or part of report name, to find the different metadata objects.

Phase 2

Metadata Catalog

MC.REQ.007

The system should allow seamless interaction between the search results from the catalogue and the individual metadata objects.

Phase 2

Metadata Catalog

MC.REQ.008

The system should seamlessly integrate the metadata catalog with the report editor to create & edit reports by selecting metadata from the catalog.

Phase 2

Complainant should have option to change the status of complaint post registration of complaint.

Phase 2

Complainant, Assignee and WDRA should have option to check the status of every complaint.

Phase 2

Complainant should have option to reopen the complaint in case complainant is not satisfied with the resolution provided by the assignee or WDRA. Assignee, WDRA (in case complaint is escalated to WDRA) should receive a notification message post change of status of complaint.

Phase 2

Complainant, Assignee and WDRA (in case complaint is escalated to WDRA) should receive a notification message post change of status of complaint. Phase 2

WDRA should have an option to change Complaint Category, Complaint Sub-category in case WDRA finds the complaint is actually a dispute. Complainant, Assignee should receive a notification message post change of Category, Sub-category of complaint.

Phase 2

Complaint & Disputes

Complaint & Disputes

Complaint & Disputes

Complaint & Disputes

Complaint & Disputes

Complaint & Disputes

Complaint & Disputes
The system should enable streamlined process for request based exchange with other regulatory bodies.

The system should present prescribed reports related to the performance of various process owners, and the authorized users.

Phase 2

**System should provide a visual editor for defining business event rules which can also include different risks that need to be monitored.**

**System should allow suppression of alerts.**

**Dashboard should alert any critical event defined by the user and also send SMS / email to the concerned process owner.**

**The system should provide capabilities to drill up and down through hierarchies, or expand and collapse entire levels.**

**The system should present performance indicators and dashboards to authorized users only.**

**System should enable secure transmission of data through browser upload, web services and secure FTP mode.**

**System should allow allocation of exception reports to different assigned users.**

**System should be capable of generating alerts based on exceptions as defined by the Authority from time to time.**

**User should be able to send the reports over email through the dashboard itself.**

**The reporting tool should have robust visualizations such as graphs, charts, and histograms.**

**System should ensure both data and pathway encryption.**

**System should allow for data aggregation in the form of XML from different sources.**

**The reporting tool should have slicing and dicing features facilitating ad-hoc management reporting on the fly.**

**System should publish prescribed standard reports (summary reports, cross tab reports, top eNWR issuance reports, pledge reports etc.) in all the key functions like issuance, transfer, pledge, e-auction, delivery, etc.**

**The system should publish prescribed standard reports (summary reports, cross tab reports, top eNWR issuance reports, pledge reports etc.) in all the key functions like issuance, transfer, pledge, e-auction, delivery, etc.**

**Information Sharing**

**System should allow definition of business rules using standard event languages and supported by standard complex event processing engines.**

**System should provide for reconciliation dashboard from different sources and highlight the inconsistencies.**

**System should provide capabilities to drill up and down through hierarchies, or expand and collapse entire levels.**

**System should allow for data aggregation in the form of XML from different sources.**

**System should allow allocation of exception reports to different assigned users.**

**System should provide capabilities to drill up and down through hierarchies, or expand and collapse entire levels.**

**System should provide the ability to authorized users for creation of new reports.**

**The platform shall be accessible via a browser using internet protocols. The intention is to enable ‘anytime, anywhere’ access and to include different types of users as appropriate.**

**System should be capable of generating alerts based on exceptions as defined by the Authority from time to time.**

**System should be capable of aggregation and assessment of data to identify exceptions.**

**System should be capable of monitoring alerts and high risk scenarios.**

**System should be capable of assessment of events, feedback and results to assist in fine-tuning the models.**

**System should provide for reconciliation dashboard from different sources and highlight the inconsistencies.**

**System should allow for data aggregation in the form of XML from different sources.**

**System should allow authorized users to search and filter exception records within list.**

**System should provide capabilities to drill up and down through hierarchies, or expand and collapse entire levels.**

**System should present prescribed exceptional indicators in either graphical or tabular format as specified by the Authority.**

**System should be capable of generating alerts based on defined business rules.**

**System should allow definition of business rules using standard event languages and supported by standard complex event processing engines.**

**System should provide a visual editor for defining business event rules which can also include different risks that need to be monitored.**

**System should display alerts using intuitive visual metaphors in a non-invasive way.**

**System should allow setting interaction between alerts, different MIS & Exception reports to facilitate actionable intelligence.**

**System should allow suppression of alerts.**

**System should allow adding notes to alerts and facilitate seamless sharing of alerts with other system users.**

**System should provide online reporting of different alerts raised, action taken and current status.**