BY CENTER FOR GOOD GOVERNANCE

fOR gREATER HYDERABAD MUNICIPAL CORPORATION,

Hyderabad, Telangana

TASk electronic assessment & monitoring (TEAM)

**Software Requirements Specification**

**For Development of Task Electronic Assessment & Monitoring (TEAM)**

**By**

**Centre for Good Governance**

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| **Document Owner** | Centre for Good Governance |

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# OVERVIEW:

1.1 Purpose:

The main objective of this Task Electronic Assessment & Monitoring (TEAM) is to reduce the manual errors in Measurement Book recording and create transparency between the Citizen and GHMC. To achieve this, a comprehensive IT system has to be put in place.

GHMC requested CGG to provide an integrated web application for Engineering Works to monitor, record and generate Bills through online.

1.2 Acronyms and Abbreviations:

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| **Sl. No** | **Word** | **Abbreviation** |
| 1 | GHMC | Greater Hyderabad Municipal Corporation |
| 2 | TEAM | Task Electronic Assessment & Monitoring |
| 3 | CGG | Centre for Good Governance |
| 4 | AEE | Assistant Executive Engineer |
| 5 | DE | Deputy Executive Engineer |
| 6 | EE | Executive Engineer |
| 7 | SE | Superintend Engineer |
| 8 | HD | Head Draftsman |
| 9 | DAO | Divisional Accounts Officer |

# STAKEHOLDERS:

The **primary stakeholders** of this proposal are:

* 1. **Client Department:** GHMC.
  2. **Solution Provider:** Centre for Good Governance (CGG)

# SCOPE:

**Roles**: 3.1. Assistant Executive Engineer

3.2. Deputy Executive Engineer

3.3. Executive Engineer

3.4. Head Draftsman

3.5. Divisional Accounts Officer

* 1. **AEE:** AEE logs into application and performs the following tasks

1. Raise of New Bill/Bill Generation
2. View of works Check Measured by DEE. If the Work is Check Measured and Contractor Acceptance for the Measurements, then it is eligible for Bill raising.
3. Selects the WIN Number.
4. Selects the List of BOQ items, for Bill Generation. If Bill Amount is more than 5 Lakhs, then that WIN has to be Test Check by EE. If Bill Amount is More than 25 Lakhs, then that WIN has to be Super Checked by SE.
5. Uploading of Third Party Quality Report (only. Pdf format).
6. If internal Quality Team Report is available, it has to be showed there.
7. Entry of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) uploads document for every charge (Only .Pdf)
8. Remarks
9. Submission of Bill to that particular WIN Number, AEE can take print of Bill Abstract.
10. Request Forwarded to DEE.
11. Revert Applications
12. View of Bills reverted from DEE.
13. Deselecting of Items or Selecting of Items for reverted Bills.
14. Edit of Charges and uploading of Supporting Document (Only .PDF)
15. Submission of Bill, forwarded to DEE
    * If AEE Submitts application which is reverted from DEE, also shown in Bill Generation DEE.
    1. **DEE:** DEE logs into application and performs the following tasks
16. Bill Generation
17. View of Bill Generations raised by AEE.
18. Selects the WIN Number.
19. View of BOQ Items, for that bill.
20. View of Third Party Quality Report (only. Pdf format).
21. View of Internal Quality Team Report (If Available).
22. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
23. Remarks
24. Submission of Bill or Revert.
25. Forwarded to EE if Submitted, Revert to AEE if Reverted.
26. Revert Application
27. View of Bills reverted from EE.
28. Selects the WIN Number.
29. View of BOQ Items, for that bill.
30. View of Third Party Quality Report (only. Pdf format).
31. View of Internal Quality Team Report (If Available).
32. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
33. Remarks
34. Submission of Bill or Revert.
35. Forwarded to EE if Submitted, Revert to AEE if Reverted.
    1. **EE:** EE logs into application.

EE gets the List of Win Numbers from:

1. DEE.
2. HD.
3. DAO.
4. Revert Applications
5. **DEE:**
6. View of Bills forwarded by DEE, raised by AEE.
7. Selects the WIN Number.
8. View of BOQ Items, for that bill.
9. View of Third Party Quality Report (only. Pdf format).
10. View of Internal Quality Team Report (If Available).
11. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
12. Remarks
13. Submission of Bill to that particular WIN Number, EE can take print of Bill Abstract.
14. Submission of Bill or Revert.
15. Forwarded to DAO if Submitted, Revert to DEE if Reverted.

**II. HD:**

1. View of Bills forwarded by HD, after DB note generation.
2. Selects the WIN Number.
3. View of BOQ Items, for that bill.
4. View of Third Party Quality Report (only. Pdf format).
5. View of Internal Quality Team Report (If Available).
6. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
7. View of DB Note, Edit if necessary.
8. Remarks
9. Submission of Bill to that particular WIN Number, EE can take print of Bill Abstract.
10. Request forwarded to DAO.

**III. DAO:**

1. View of Bills forwarded by DAO, after Pass Order generation.
2. Selects the WIN Number.
3. View of BOQ Items, for that bill.
4. View of Third Party Quality Report (only. Pdf format).
5. View of Internal Quality Team Report (If Available).
6. View of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction)
7. View of DB Note.
8. View of Pass Order.
9. Submission of Bill to that particular WIN Number,
10. Request forwarded to ERP.

**IV. Revert Applications:**

1. View of Bills Reverted from DAO, before Pass Order generation.
2. Selects the WIN Number.
3. View of BOQ Items, for that bill.
4. View of Third Party Quality Report (only. Pdf format).
5. View of Internal Quality Team Report (If Available).
6. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
7. View of DB Note.
8. Forwarded to DAO if Submitted, Revert to DEE if Reverted.
   1. **HD:** HD Logs into application and performs the following tasks
9. Bill Generation
10. View of Bills forwarded by EE.
11. Selects the WIN Number.
12. View of BOQ Items, for that bill.
13. View of Third Party Quality Report (only. Pdf format).
14. View of Internal Quality Team Report (If Available).
15. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
16. Remarks
17. Generation of DB Note.
18. Submission of Bill to that particular WIN Number,
19. Request forwarded to EE.
20. Revert Application
21. View of Bills Reverted by EE.
22. Selects the WIN Number.
23. View of BOQ Items, for that bill.
24. View of Third Party Quality Report (only. Pdf format).
25. View of Internal Quality Team Report (If Available).
26. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) if Edit has happened then they have to Upload Respective Document against that charge.
27. Remarks
28. Generation of DB Note.
29. Submission of Bill to that particular WIN Number,
30. Request forwarded to EE.
    1. **DAO:** DAO Logs into application and performs the following tasks
31. View of Bills forwarded by EE.
32. Selects the WIN Number.
33. View of BOQ Items, for that bill.
34. View of Third Party Quality Report (only. Pdf format).
35. View of Internal Quality Team Report (If Available).
36. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction)
37. Remarks
38. View of DB Note (Edit if necessary).
39. Generation of Pass Order.
40. Submission of Bill to that particular WIN Number,
41. Request forwarded to EE.

**3.6. Calculation of charges:**

1. Seigniorage Charge: Entered charges has to be Deducted from Net amount.
2. Extension of Time Penalty: Entered Charges has to be Deducted from Net amount.
3. Quality Recovery: Entered Charges has to be Deducted from Net amount.
4. Price Adjustment:
   1. Addition: Entered Charges has to be Added for the Net amount.
   2. Subtraction: Entered Charges has to be Deducted for the Net amount.

* Validation: All the above charges should be greater than Zero, if Zero is entered charges then no need of Uploading a document.
* Only Numeric has to be entered.

**3.7.DB Note**

Name of the Work:

Win Code Number:

Locality:

Name of the Agency:

Amount Estimation(in Rs/-):

Amount of Contract(in Rs/-):

Work Order Number:

Agreement Number:

Date of Markout:

Date of Completion(as per Agreement) :

Tender Percentage:

Tender Premium Applicable(or)not:

MB First Record Date:

MB Last Record Date:

Date of Last Measurement:

Actual Date of Completion:

Details of Extension of Work(if any) :

**Bills:**

Amount of Present Bill(in Rs/-):

Amount of Previous Bill(in Rs/-):

Balance Agreement Amount(in Rs/-):

Action Taken on QC Reports:

Supplementary Agreement No. :  
Whether Contractor has signed MB in taken of acceptance of Measurement:

Name of the Officer Recorded the Measurements:

Name of the Officer Check Measured the Measurements:

Name of the Officer Test Checked the Measurements:

Name of the Officer Super Checked the Measurements:

Whether QCC/Third Party Reports Received:

**Recovery Proposals**

1. Seigniorage Charges:
2. QC Recovery:
3. Price Adjustment:
4. EOT Penalty:
5. After all Deductions Payment Now(in Rs/-):

**3.8.Pass Order**

Name of the Work

Win Code Number

Locality

Name of the Agency

Amount Estimation(in Rs/-)

Amount of Contract(in Rs/-)

Work Order Number

Agreement Number

Date of Markout

Date of Completion(as per Agreement)

Tender Percentage

Tender Premium Applicable(or)not

MB First Record Date

MB Last Record Date

Date of Last Measurement

Actual Date of Completion

Details of Extension of Work(if any)

**Bills:**

Amount of Present Bill(in Rs/-)

Amount of Previous Bill(in Rs/-)

Balance Agreement Amount(in Rs/-)

Action Taken on QC Reports:

Supplementary Agreement No.  
(if Any):

Whether Contractor has signed MB in taken of acceptance of Measurement

Name of the Officer Recorded the Measurements

Name of the Officer Check Measured the Measurements

Name of the Officer Test Checked the Measurements

Name of the Officer Super Checked the Measurements

Whether QCC/Third Party Reports Received

**Recovery Proposals**

1. Seigniorage Charges:
2. QC Recovery:
3. Price Adjustment:
4. EOT Penalty:
5. After all Deductions Payment Now(in Rs/-):

**Inclusions**

1. Total Work Done:
2. Price Adjustment: (Addition or Deduction)
3. Tender Percentage:
4. Total Amount:
5. GST:
6. NAC:
7. TOTAL:
8. With Hold:
9. Grand Total:

**Deductions:**

1. First Bill FSD:
2. Final Bill RMD:
3. IT:
4. Departmental Supply:
5. Seigniorage Charges:
6. SMET:
7. DMF:
8. EOT Penalty:
9. QC recovery:
10. GST TDS:
11. VAT TDS:
12. Labour Cess:
13. NAC:
14. Others:
15. Total Deductions:

**3.9.Calculation of Pass Order:**

|  |  |
| --- | --- |
| **Inclusions** | **Deductions** |
| 1. Total Work Done: \_\_\_ | 1. First Bill FSD: \_\_(7.5% on 7 inclusions) |
| 2. Price Escalation: Add or deduct: Rs \_\_\_(DB) | 2. Final Bill RMD: \_(2.5% on 7 inclusions) |
| 3. Tender Premium %: \_\_\_\_\_\_\_\_(DB) | 3. IT 2%: \_\_\_\_\_\_\_ on 7 Inclusions |
| 4. Total Amount: Rs. \_\_\_\_\_\_(Calculate 1 (+/-) 2 (+/-) 3) | 4. Departmental Supply: \_\_\_\_ (Entry) |
| 5. GST (Reimbursement)/VAT 5%: \_\_\_\_(Calculate on 4) | 5. Seigniorage Charges: \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 6. NAC 0.1%: \_\_ (Calculate on 4) | 6. SMET 2% on pt.4 in Deductions: \_\_\_\_ |
| 7. Total: \_\_\_\_\_\_\_(4+5+6=7) | 7. DMF 10% on pt.4 in deductions: \_\_\_\_\_\_ |
| 8. With Hold in: \_\_\_\_\_\_(Entry) | 8. EOT Penalty: \_\_\_\_\_\_\_\_\_\_\_ |
| 9. Total Value: \_\_\_\_\_\_\_\_\_\_\_\_\_(7 inc-8 inc-15ded) | 9. QC Recovery: \_\_\_\_\_\_\_\_\_\_ |
|  | 10. GST TDS: \_\_\_\_(No data) |
|  | 11. VAT TDS: \_\_\_\_ (No data) |
|  | 12. Labour Cess 1% on 4 Inclu: \_\_\_\_\_\_\_\_ |
|  | 13. NAC 0.1%: \_\_ Replicate Incl NAC |
|  | 14. Others: \_\_\_\_\_(Entry) |
|  | 15. Total Deductions: \_\_ (calculate 1 to 14) |

Part Bill Inclusions: Except 8 all

Part Bill Deductions: Except 2

Final Bill Inclusions: All

Final Bill Deductions: Except 1

**3.10.List of Certificates:**

1. Work is In Progress.
2. Work is Completed.
3. Till date Completed date is Satisfactory.
4. The Site is Clear.
5. No Departmental Material issued to Contractor
6. The Contractor has engaged his own people, Material and Machinery during Work Period.

# Functional Requirement:

* 1. Login Authentication

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Req ID | Requirement | Description | Priority | Note |
| Bill\_R001\_2/2/18 | Login | User Has to Enter User Name and Password | High | User when logins into the application they have to authentic login credentials. After successful verification of the user login credentials, the application should allow the user to access the application. |
| Bill\_R002\_2/2/18 | Logout | User logs out | High | User has to lout of the application successfully. |

* 1. AEE

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| --- | --- | --- | --- | --- |
| Req ID | Requirement | Description | Priority | Note |
| Bill\_R003\_2/2/18 | Bill Generation AE | If AE wants to raise the Bill they select this | High |  |
| Bill\_R004\_2/2/18 | List of WIN Numbers | All the WIN Numbers which are Check Measured by DEE and Contractor Accepted or Rejected will be displayed here | Medium | Si. No, WIN Number, Name of the Work, Location of the Work is displayed in an order. |
| Bill\_R005\_2/2/18 | WIN Number Selection | Click on WIN Number | Medium | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R006\_2/2/18 | Selection of Items | AEE can raise to the desired number of Items. | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. After Selection of Multiple Items Consolidated Total of all Items has to be displayed in the below. At least one item has to be Selected. If Any Item bill has completed, by default it has to be selected, deselecting should not allow. |
| Bill\_R007\_2/2/18 | Quality Team Reports | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R008\_2/2/18 | Selection of Bill Type | AEE can select weather the Bill is Part or Final Bill. | High | Mandatory |
| Bill\_R009\_2/2/18 | 3rd Party QC Report | Upload of Report | High | Only .PDF, Mandatory Field |
| Bill\_R0010\_2/2/18 | Charges | Enter Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6) |
| Bill\_R0011\_2/2/18 | Certificate | Selection of Certificates | High | AEE can Select all the list of Certificates or their Desired Certificates. For List of Certificates please refer (3.8) |
| Bill\_R0012\_2/2/18 | Remarks | Enter the Remarks | High | Mandatory |
| Bill\_R0013\_2/2/18 | Previous Bill | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0014\_2/2/18 | Submit | Bill has to be Submitted to DEE | High | Unique ID for the raised Bill has to be generated. Unique ID for this Bill is this generated ID. Once the Bill Generated it cannot be deleted. |
| Bill\_R0015\_2/2/18 | Bill Abstract | After Successful Submission of Bill, Bill Abstract has to be Displayed along with the Pop Up that Bill has been Successfully submitted to DEE. Print of that Abstract has to be available, Click on Back Button redirects to the Home Page. | Medium | 1. Agreement Amount, 2. Total of Previous Bill (Cumulative), 3. Present Bill Payment (Net Amount), 4. Seigniorage Charges (as per Entered), 5. EOT Penalty (as per Entered), 6. QC Recovery (as per Entered), 7. Price Adjustment (as per Entered), 8. Total of Deductions (Total of 3 to 7), 9. Present Payment (Net – Total Deductions), 10. Balance in the Agreement (Present Bill Payment – Agreement Amount) |
| Bill\_R0016\_2/2/18 | Revert Applications | Applications which are Reverted from the DEE has to be displayed | Medium |  |
| Bill\_R0017\_2/2/18 | WIN Selection for Revert | Click on WIN Number | High | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R018\_2/2/18 | Selection of Items in Revert | AEE can raise to the desired number of Items. | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. After Selection of Multiple Items Consolidated Total of all Items has to be displayed in the below. At least one item has to be Selected. If Any Item bill has completed, by default it has to be selected, deselecting should not allow. In the reverted the first selected items will be in the Selected, those can be deselected or New Items can be Selected. |
| Bill\_R019\_2/2/18 | Quality Team Reports for Revert | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R020\_2/2/18 | Selection of Bill Type for Revert | AEE can select weather the Bill is Part or Final Bill. | High | Mandatory. In Revert Part to final. Final to Part can be Done. For Final Bill EE Test check has to be Completed. |
| Bill\_R021\_2/2/18 | 3rd Party QC Report for Revert | View of Uploaded Report | High | Only .PDF, Mandatory Field, They can add new Report. |
| Bill\_R0022\_2/2/18 | Charges for Revert | Entered Charges are displayed and Uploaded Document will be displayed | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6) |
| Bill\_R0023\_2/2/18 | Certificate for Revert | Selection of Certificates | High | AEE can Select all the list of Certificates or their Desired Certificates. For List of Certificates please refer (3.8) |
| Bill\_R0024\_2/2/18 | Remarks | Enter the Remarks | High | Mandatory |
| Bill\_R0025\_2/2/18 | Previous Bill | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0026\_2/2/18 | Submit | Bill has to be Submitted to DEE | High | Unique ID for the raised Bill has to be generated. Unique ID for this Bill is this generated ID. Once the Bill Generated it cannot be deleted. |
| Bill\_R0027\_2/2/18 | DB Note | DB Note View | Medium | View of List of DB Notes Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding DB Note refer (3.7) |
| Bill\_R0028\_2/2/18 | Pass Order | Pass Order View | Medium | View of List of Pass Orders Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding Pass Order refer (3.8) |
| Bill\_R0029\_2/2/18 | Change Password | Change of Password | High | Confirm the New Password Twice. From Next time it has to be logged in with New Password |

* 1. DEE

|  |  |  |  |  |
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| Req ID | Requirement | Description | Priority | Note |
| Bill\_R030\_2/2/18 | Bill Generation DEE | If DEE wants to Verify the Bill forwarded by AE they select this | High |  |
| Bill\_R031\_2/2/18 | List of WIN Numbers | List of WIN Numbers forward by the AEE under that DEE are Showed | Medium | Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work, AE Name, Bill Type is displayed in an order. |
| Bill\_R032\_2/2/18 | WIN Number Selection | Click on WIN Number | Medium | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R033\_2/2/18 | Bill Items | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R034\_2/2/18 | Quality Team Reports | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R035\_2/2/18 | Bill Type | View of Bill Type | High | No Provision to Change |
| Bill\_R0036\_2/2/18 | 3rd Party QC Report | Report View | High | Only View of Report |
| Bill\_R0037\_2/2/18 | Charges | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6). DEE Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0038\_2/2/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0039\_2/2/18 | Remarks | Enter the Remarks | High | Mandatory. AEE Entered Remarks View. |
| Bill\_R0040\_2/2/18 | Previous Bill | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0041\_2/2/18 | Submit | Bill has to be Submitted to EE | High | Existing Unique ID Should not change. |
| Bill\_R0042\_2/2/18 | Bill Abstract | After Successful Submission of Bill, Bill Abstract has to be Displayed along with the Pop Up that Bill has been Successfully submitted to EE. Print of that Abstract has to be available, Click on Back Button redirects to the Home Page. | Medium | 1. Agreement Amount, 2. Total of Previous Bill (Cumulative), 3. Present Bill Payment (Net Amount), 4. Seigniorage Charges (as per Entered), 5. EOT Penalty (as per Entered), 6. QC Recovery (as per Entered), 7. Price Adjustment (as per Entered), 8. Total of Deductions (Total of 3 to 7), 9. Present Payment (Net – Total Deductions),   Balance in the Agreement (Present Bill Payment – Agreement Amount) |
| Bill\_R0043\_2/2/18 | Revert | Revert the Application to AEE | High |  |
| Bill\_R044\_2/2/18 | Revert Applications | Applications which are Reverted from the EE has to be displayed | Medium | List of WIN Numbers will be displayed in an order with Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work. |
| Bill\_R045\_2/2/18 | WIN Selection for Revert | Click on WIN Number | High | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R046\_2/2/18 | Selection of Items in Revert | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R047\_2/2/18 | Quality Team Reports for Revert | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R0048\_2/2/18 | Bill Type for Revert | View of Bill Type | High | No Provision to Change |
| Bill\_R0049\_2/2/18 | 3rd Party QC Report for Revert | Report View | High | Only View of Report |
| Bill\_R0050\_2/2/18 | Charges for Revert | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding refer (3.6). DEE Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0051\_2/2/18 | Certificate for Revert | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0052\_2/2/18 | Remarks for Revert | Enter the Remarks | High | Mandatory. View of AEE Remarks |
| Bill\_R0053\_2/2/18 | Previous Bill in Revert | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0054\_2/2/18 | Submit for Reverted | Bill has to be Submitted to EE | High | Existing Unique ID Should not change. |
| Bill\_R0055\_2/2/18 | DB Note | DB Note View | Medium | View of List of DB Notes Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding DB Note refer (3.7) |
| Bill\_R056\_2/2/18 | Pass Order | Pass Order View | Medium | View of List of Pass Orders Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding Pass Order refer (3.8) |
| Bill\_R057\_2/2/18 | Change Password | Change of Password | High | Confirm the New Password Twice. From Next time it has to be logged in with New Password |

* 1. EE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Req ID | Requirement | Description | Priority | Note |
| Bill\_R058\_2/2/18 | Bill Generation EE | If EE wants to Verify the Bill forwarded by DEE they select this | High |  |
| Bill\_R059\_2/2/18 | List of WIN Numbers | List of WIN Numbers forward by the DEE under that EE are Showed | Medium | Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work, AE Name, Bill Type is displayed in an order. |
| Bill\_R060\_2/2/18 | WIN Number Selection | Click on WIN Number | Medium | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R061\_2/2/18 | Bill Items | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R0062\_2/2/18 | Quality Team Reports | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R0063\_2/2/18 | Bill Type | View of Bill Type | High | No Provision to Change |
| Bill\_R0064\_2/2/18 | 3rd Party QC Report | Report View | High | Only View of Report |
| Bill\_R0065\_2/2/18 | Charges | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this refer (3.6). EE Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0066\_2/2/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0067\_2/2/18 | Remarks | Enter the Remarks | High | Mandatory. View of Remarks Entered by AEE and DEE |
| Bill\_R0068\_2/2/18 | Previous Bill | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0069\_2/2/18 | Submit | Bill has to be Submitted to HD | High | Existing Unique ID Should not change. |
| Bill\_R070\_2/2/18 | Revert | Revert the Application to DEE | High |  |
| Bill\_R071\_2/2/18 | Bill Abstract | After Successful Submission of Bill, Bill Abstract has to be Displayed along with the Pop Up that Bill has been Successfully submitted to EE. Print of that Abstract has to be available, Click on Back Button redirects to the Home Page. | Medium | 1. Agreement Amount, 2. Total of Previous Bill (Cumulative), 3. Present Bill Payment (Net Amount), 4. Seigniorage Charges (as per Entered), 5. EOT Penalty (as per Entered), 6. QC Recovery (as per Entered), 7. Price Adjustment (as per Entered), 8. Total of Deductions (Total of 3 to 7), 9. Present Payment (Net – Total Deductions), 10. Balance in the Agreement (Present Bill Payment – Agreement Amount) |
| Bill\_R072\_2/2/18 | Revert | Applications which are Reverted from the DAO has to be displayed | Medium | List of WIN Numbers will be displayed in an order with Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work. |
| Bill\_R073\_2/2/18 | WIN Selection for Revert | Click on WIN Number | High | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R0074\_2/2/18 | Selection of Items in Revert | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R0075\_2/2/18 | Quality Team Reports for Revert | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R0076\_2/2/18 | Bill Type for Revert | View of Bill Type | High | No Provision to Change |
| Bill\_R0077\_2/2/18 | 3rd Party QC Report for Revert | Report View | High | Only View of Report |
| Bill\_R0078\_2/2/18 | Charges for Revert | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6). EE Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0079\_2/2/18 | Certificate for Revert | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0080\_2/2/18 | Remarks for Revert | Enter the Remarks | High | Mandatory. View of Remarks entered by AEE and DEE. |
| Bill\_R0081\_2/2/18 | Previous Bill in Revert | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0082\_2/2/18 | Submit for Reverted | Bill has to be Submitted to HD | High | Existing Unique ID Should not change. |
| Bill\_R0083\_2/2/18 | DB Note | DB Note View | Medium | View of List of DB Notes Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding DB Note refer (3.7) |
| Bill\_R084\_2/2/18 | Pass Order | Pass Order View | Medium | View of List of Pass Orders Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding Pass Order refer (3.8) |
| Bill\_R085\_2/2/18 | Send to ERP | Pass Order Details Sent to ERP | Medium |  |
| Bill\_R086\_2/2/18 | Change Password | Change of Password | High | Confirm the New Password Twice. From Next time it has to be logged in with New Password |

* 1. HD

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| Req ID | Requirement | Description | Priority | Note |
| Bill\_R087\_2/2/18 | Bill Generation HD | If HD wants to Verify the Bill forwarded by EE they select this | High |  |
| Bill\_R088\_2/2/18 | List of WIN Numbers | List of WIN Numbers forward by the EE | Medium | Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work, AE Name, Bill Type is displayed in an order. |
| Bill\_R089\_2/2/18 | WIN Number Selection | Click on WIN Number | Medium | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R0090\_2/2/18 | Bill Items | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R0091\_2/2/18 | Quality Team Reports | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R0092\_2/2/18 | Bill Type | View of Bill Type | High | No Provision to Change |
| Bill\_R0093\_2/2/18 | 3rd Party QC Report | Report View | High | Only View of Report |
| Bill\_R0094\_2/2/18 | Charges | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this refer (3.6). HD Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0095\_2/2/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0096\_2/2/18 | Remarks | Enter the Remarks | High | Mandatory. View of Remarks Entered by AEE, DEE and EE |
| Bill\_R0097\_2/2/18 | Previous Bill | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0098\_2/2/18 | DB Note Generation | DB Note | High | …… |
| Bill\_R0099\_2/2/18 | Submit | Generated DB Note Submitted to EE | High |  |
| Bill\_R0100\_2/2/18 | Revert | Applications which are Reverted from the EE has to be displayed | Medium | List of WIN Numbers will be displayed in an order with Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work. |
| Bill\_R0101\_2/2/18 | WIN Selection for Revert | Click on WIN Number | High | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R0102\_2/2/18 | Selection of Items in Revert | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R0103\_2/2/18 | Quality Team Reports for Revert | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R0104\_2/2/18 | Bill Type for Revert | View of Bill Type | High | No Provision to Change |
| Bill\_R0105\_2/2/18 | 3rd Party QC Report for Revert | Report View | High | Only View of Report |
| Bill\_R00106\_2/2/18 | Charges for Revert | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6). HD Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0107\_2/2/18 | Certificate for Revert | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0108\_2/2/18 | Remarks for Revert | Enter the Remarks | High | Mandatory. View of Remarks entered by AEE, DEE and EE. |
| Bill\_R0109\_2/2/18 | Previous Bill in Revert | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0110\_2/2/18 | DB Note Generation | DB Note Generated and forwarded to EE | High | Regarding DB Note refer (3.7) |
| Bill\_R0111\_2/2/18 | DB Note | DB Note View | Medium | View of List of DB Notes Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding DB Note refer (3.7) |
| Bill\_R0112\_2/2/18 | Pass Order | Pass Order View | Medium | View of List of Pass Orders Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding Pass Order refer (3.8) |
| Bill\_R0113\_2/2/18 | Change Password | Change of Password | High | Confirm the New Password Twice. From Next time it has to be logged in with New Password |

* 1. DAO

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| Req ID | Requirement | Description | Priority | Note |
| Bill\_R0114\_2/2/18 | Pass Order Generation DAO | If DAO wants to Verify the Bill forwarded by EE they select this | High |  |
| Bill\_R0115\_2/2/18 | List of WIN Numbers | List of WIN Numbers forward by the EE | Medium | Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work, AE Name, Bill Type is displayed in an order. |
| Bill\_R0116\_2/2/18 | WIN Number Selection | Click on WIN Number | Medium | Details displayed from Database in that Page are: Name of the Work, WIN Number, Work Order Number, Name of the Agency, Admin Sanction Number, Date and Amount, Technical Sanction Number, Date and Amount, Agreement Number, Date and Amount, Date of Mark Out, Tender Percentage, Date of Completion, First and Last date of Recordings. |
| Bill\_R0117\_2/2/18 | Bill Items | AEE raised Number of Items | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Consolidated Total of all Items has to be displayed in the below, deselecting is not allowed. |
| Bill\_R0118\_2/2/18 | Quality Team Reports | If any Reports are Uploaded by the Quality Team against this WIN Number, it will be displayed here | Medium | Without Quality Report also bill can be processed. Not Mandatory |
| Bill\_R0119\_2/2/18 | Bill Type | View of Bill Type | High | No Provision to Change |
| Bill\_R0120\_2/2/18 | 3rd Party QC Report | Report View | High | Only View of Report |
| Bill\_R0121\_2/2/18 | Charges | Edit Charges and Upload Document | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6). DAO Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0122\_2/2/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0123\_2/2/18 | Remarks | Enter the Remarks | High | Mandatory. View of Remarks Entered by AEE, DEE, EE and HD |
| Bill\_R0124\_2/2/18 | Previous Bill | If there are any Previous Raised Bills it will be Displayed | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R0125\_2/2/18 | DB Note View | DB Note | High | Regarding DB Note refer (3.7) |
| Bill\_R0126\_2/2/18 | Pass Order Generation | Pass Order Is generated | High | Regarding Pass Order refer (3.8) |
| Bill\_R0127\_2/2/18 | Revert | Revert the Application to EE | Medium | List of WIN Numbers will be displayed in an order with Si. No, Bill Number, WIN Number, Name of the Work, Location of the Work. |
| Bill\_R0128\_2/2/18 | DB Note | DB Note View | Medium | View of List of DB Notes Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding DB Note refer (3.7) |
| Bill\_R0129\_2/2/18 | Pass Order | Pass Order View | Medium | View of List of Pass Orders Generated. Si. No, Bill Number, Name of the Work, Location, Raised by AE Name, Bill Date, View of DB Note. Regarding Pass Order refer (3.8) |
| Bill\_R0130\_2/2/18 | Change Password | Change of Password | High | Confirm the New Password Twice. From Next time it has to be logged in with New Password |

1. Flow:

