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:

|  |  |  |
| --- | --- | --- |
| **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 | DEE | 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.
5. Selects Supplementary Item and Enters rate of the Item. Save the Rate, if user want to add that item into bill select the check box.
6. Select weather the Bill is Part Bill or Final Bill.
7. Uploading of Third Party Quality Report (only. Pdf format).
8. Uploading of Internal GHMC Quality Report (only. Pdf format).
9. Uploading of Work Slip (only. Pdf format).
10. Select Images. (For Part Bill Minimum 2 Photos, for Final Bill minimum 3 Photos)
11. Entry of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction) uploads document for every charge (Only .Pdf). If charges are Zero then no need of Upload but for EOT if Agreement days are exceeded entry of charges and upload is mandatory.
12. Select the Certificates
13. Enter Certificate if they require.
14. If User want to enter another certificate they can write.
15. Enter Remarks
16. Comparative Statement Upload.
17. Selection of BOQ Item.
18. If user want to upload any upload they can upload in the Other upload along with its remarks.
19. Submission of Bill to that particular WIN Number, AEE can take print of Bill Abstract.
20. Request Forwarded to DEE.
21. Revert Applications

Reverted Application will be from DEE, that will be having all the Provisions for AE/AEE like bill raising. Submission of that Bill will be forwarded to DEE. That will be viewed in DEE as a fresh Bill.

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

1. Bill Generation
2. View of Bill Generations raised by AEE.
3. Selects the WIN Number.
4. View of BOQ Items, for that bill.
5. Edit Rate for Supplementary Items if Require.
6. View of Third Party Quality Report
7. View of Internal Quality Team Report
8. View of Work Slip
9. View of Photos
10. 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.
11. View of Certificates
12. View of Comparative Statement and BOQ Items
13. Enter Remarks
14. Submission of Bill or Revert.
15. Forwarded to EE if Submitted, Revert to AEE if Reverted.
16. Revert Application

Reverted Application will be from EE, that will be having all the Provisions for DEE as of AE/AEE submitted bill. Submission of that Bill will be forwarded to EE or DEE can revert the application to AE/AEE.

* 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. Edit rate for Supplementary Items.
10. View of Third Party Quality Report (only. Pdf format).
11. View of Internal Quality Team Report (If Available).
12. 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.
13. Remarks
14. Submission of Bill to that particular WIN Number, EE can take print of Bill Abstract.
15. Submission of Bill or Revert.
16. 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 HD 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. Edit Supplementary Items Rate.
14. View of Third Party Quality Report (only. Pdf format).
15. View of Internal Quality Team Report (If Available).
16. 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.
17. Remarks
18. Generation of DB Note.
19. Submission of Bill to that particular WIN Number,
20. Request forwarded to EE.
21. Revert Application
22. View of Bills Reverted by EE.
23. Selects the WIN Number.
24. View of BOQ Items, for that bill.
25. View of Third Party Quality Report (only. Pdf format).
26. View of Internal Quality Team Report (If Available).
27. 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.
28. Remarks
29. Generation of DB Note.
30. Submission of Bill to that particular WIN Number,
31. Request forwarded to EE.
    1. **DAO:** DAO Logs into application and performs the following tasks
32. View of Bills forwarded by EE.
33. Selects the WIN Number.
34. View of BOQ Items, for that bill.
35. View of Third Party Quality Report (only. Pdf format).
36. View of Internal Quality Team Report (If Available).
37. Edit of Charges like Seigniorage Charges, Extension of Time Penalty, Quality Recovery, Price Adjustment (Addition or Deduction)
38. Remarks
39. View of DB Note (Edit if necessary).
40. Generation of Pass Order.
41. Submission of Bill to that particular WIN Number,
42. 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**

Win Code Number:

Locality:

Name of the Work:

Name of the Agency:

Amount Estimation (in Rs/-) (Admin Sanction Amount):

Estimated Contract Value (in Rs/-):

Amount of Contract:

Work Order Number:

Agreement Number:

Date of Markout:

Date of Completion (as per Agreement) :

Estimated Date of Completion:

Tender Percentage:

MB First Record Date:

MB Last Record Date:

Weather Contractor has signed MB in the taken of acceptance of Measurement:

Name of the Officer Recorded the Measurements (AE/AEE):

Name of the Officer Check Measured the Measurements (DEE):

Name of the Officer Check Measured the Measurements (EE):

Name of the Officer Check Measured the Measurements (SE):

Whether QCC/Third Party Reports Received: Yes/No

**Bills:**

* + 1. Total of Estimated Work Done:
    2. Total of Supplementary Items (Unauthorized Excess):
    3. Total Work Done:
    4. Tender Percentage:
    5. Tender Amount:

**Previous Bills:**

1. Total Previous Bill (in Rs/-):
2. Total Previous Seigniorage (in Rs. /-):
3. Total Previous Price Adjustment (in Rs. /-):
4. Balance Agreement Amount (in Rs. /-):

**Recovery Proposals**

**Part/Final Bill:**

1. Seigniorage Charges:
2. EOT Penalty:
3. QC Recovery:
4. Price Adjustment:
5. Price Adjustment: (Addition/Subtraction)

Supplementary Agreement Number (if Any):

Supplementary Agreement Document:

Estimated Date of Completion (as per EOT):

The following Items are found to be Excess over Agreement/ Supplemental Items:

After all Deductions Payment Now (in Rs: /-)

After all Deductions Payment Now (Round) (in Rs. /-):

**3.8. Pass Order**

Win Code Number

Locality

Name of the Work

Name of the Agency

Amount Estimation (in Rs/-) (Admin Sanction Amount)

Estimated Contract Value (in Rs/-)

Amount of Contract

Work Order Number

Agreement Number

Date of Markout

Date of Completion (as per Agreement)

Tender Percentage

MB First Record Date

MB Last Record Date

Whether Contractor has signed MB in taken of acceptance of Measurement

Officer Recorded the Measurements (AE/AEE)

Officer Check Measured the Measurements (DEE)

Officer Check Measured the Measurements (EE)

Officer Check Measured the Measurements (SE)

Whether QCC/Third Party Reports Received

Action Taken on QC Reports:

Supplementary Agreement No.  
(if Any):

Supplementary Agreement Document

**Previous Bills:**

Total of Estimated Work Done:

**Authorized Excess –** Description of Item, Estimated Recorded Quantity, Total Recorded Quantity, Rate, Per, Amount

**Unauthorized Excess–** Description of Item, Estimated Recorded Quantity, Total Recorded Quantity, Rate, Per, Amount

**Total of Supplementary Items (Unauthorized Excess):**

**Total Work Done:**

**Tender Percentage:**

**Tender Amount:**

**Total Previous Bill (in Rs. /-)**

**Total Previous Seigniorage (in Rs. /-)**

**Total Previous Price Adjustment**

**The following are the Recovery Proposals:**

1. Seigniorage Charges:
2. QC Recovery:
3. Price Adjustment:
4. EOT Penalty:

Balance Agreement Amount (in Rs. /-)

**Deductions:**

First Bill FSD:

Final Bill RMD:

IT 2%

Departmental Supply

Seigniorage Charges

SMET 2%

DMF 10%

EOT Penalty

QC Recovery

Labour Cess 1%

Others

Total Deductions

**Inclusions:**

Total Work Done:

Price Adjustment

Actual Work Done

Tender Percentage

Tender Amount

After Tender Percentage Pay

Previous Pay

Work done in this Bill

GST (Reimbursement)

GST Amount

After GST Pay

Previous Withhold

Previous FSD

Present Pay

Current Pay

Current Pay (Round)

**3.9. Calculation of Pass Order:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First and Part Bill | | | | | |
| Inclusions | | | Deductions | | |
| Sanction Amount | 1000000 |  | FSD | 39808.52625 | 7.5% on After Tender % Pay |
| ECV | 850000 |  | IT | 10615.607 | 2% on After Tender % Pay |
| Work Done | 544326 |  | Departmental Supply | 100 | Entry |
| Price Adj (Less) | 2500 | Without Deducting Tender Percentage | Seigniorage Charges | 2500 |  |
| Actual Work Done | 541826 | Work Done - Price Adj | SMET | 50 | 2 % on Seign charges |
| Tender Perc (Less) | 2.50% |  | DMF | 250 | 10% on Seign |
| Tender Amount | 13545.65 |  | EOT | 0 |  |
| After Tender % Pay | 530780.35 |  | QC | 5400 |  |
| GST (0, 5, 12, 18) | 12% |  | Labour Cess | 5307.8035 | 1% on Actual Work Done |
| GST Amount | 63693.642 |  | With Held Amount | 10000 |  |
| After GST Pay | 594473.992 |  | Others | 0 | Entry if entered Remarks Mandatory |
| Current Pay | 520442.0553 |  | Total Deductions | 74031.93675 |  |
| Current Pay Round | 520442 |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| First and Final Bill | | | |
| Inclusions | | Deductions | |
| Sanction Amount | 1000000 | RMD 2.5% | 20645.625 |
| ECV | 850000 | IT | 16516.5 |
| Work Done | 900000 | Departmental Supply | 0 |
| Adjusted | 850000 | Seigniorage Charges | 5000 |
| Price Adj (Less) | 3000 | SMET | 100 |
| Actual Work Done | 847000 | DMF | 500 |
| Tender Perc (Less) | 0.025 | EOT | 0 |
| Tender Amount | 21175 | QC | 1500 |
| After Tender % Pay | 825825 | Labour Cess | 8258.25 |
| GST (0, 5, 12, 18) | 0.12 | Others | 0 |
| GST Amount | 99099 | Total Deductions | 47520.375 |
| After GST Pay | 924924 |  |  |
| Current Pay | 877403.625 |  |  |
| Current Pay Round | 877404 |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Second and Part Bill | | | | | |  |  |
| Inclusions | | Deductions | | |  | |  |
| Sanction Amount | 1000000 | FSD 7.5% | 15213.06375 | Calculate on Work done on this bill | | |  |
| ECV | 850000 | IT | 4056.817 | Calculate on Work done on this bill | | |  |
| Work Done | 755432 | Departmental Supply | 0 |  | | |  |
| Price Adj (Less) | 3000 | Seigniorage Charges | 2500 | Prev Sei 2500 | | | Present Sei 2500 |
| Actual Work Done | 752432 | SMET | 50 | Calculate on Present | | |  |
| Tender Perc (Less) | 2.50% | DMF | 250 |  | | |  |
| Tender Amount | 18810.8 | EOT | 0 |  | | |  |
| After Tender % Pay | 733621.2 | QC | 0 |  | | |  |
| Prev Pay | 530780.35 | Labour Cess | 2028.4085 |  | | |  |
| Work done in this bill | 202840.85 | With Held Amount | 0 |  | | |  |
| GST (0, 5, 12, 18) | 12% | Others | 0 |  | | |  |
| GST Amount | 24340.902 | Total Deductions | 24098.28925 |  | | |  |
| After GST Pay | 227181.752 |  |  |  | | |  |
| Prev Withhold | 10000 |  |  |  | | |  |
| Prev FSD | 39808.52625 |  |  |  | | |  |
| Present Pay | 276990.2783 |  |  |  | | |  |
| Current Pay | 252891.989 |  |  |  | | |  |
| Current Pay Round | 252892 |  |  |  | | |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Third and Final Bill | | | | | |  | | |  | | |
| Inclusions | | Deductions | | |  | | |  | | |
| Sanction Amount | 1000000 | RMD 2.5% | 2305.095 | Calculate on Work done on this bill | | |  | | |
| ECV | 850000 | IT | 1844.076 | Calculate on Work done on this bill | | |  | | |
| Work Done | 900000 | Departmental Supply | 0 |  | | |  | | |
| Adjusted | 850000 | Seigniorage Charges | 0 | Prev Cum 5000 | | | Pres 0 | | |
| Price Adj (Less) | 3000 | SMET | 0 |  | | |  | | |
| Actual Work Done | 847000 | DMF | 0 |  | | |  | | |
| Tender Perc (Less) | 0.025 | EOT | 0 |  | | |  | | |
| Tender Amount | 21175 | QC | 1500 |  | | |  | | |
| After Tender % Pay | 825825 | Labour Cess | 922.038 |  | | |  | | |
| Prev Pay | 733621.2 | Others | 0 |  | | |  | | |
| Work Done in this Bill | 92203.8 | Total Deductions | 6571.209 |  | | |  | | |
| GST (0, 5, 12, 18) | 12% |  |  |  | | |  | | |
| GST Amount | 11064.456 |  |  |  | | |  | | |
| After GST Pay | 103268.256 |  |  |  | | |  | | |
| Prev Withhold | 0 |  |  |  | | |  | | |
| Prev FSD | 15213.06375 |  |  |  | | |  | | |
| Present Pay | 118481.3198 |  |  |  | | |  | | |
| Current Pay | 111910.1108 |  |  |  | | |  | | |
| Current Pay Round | 111910 |  |  |  | | |  | | |

**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.
7. Any other Certificate if they want to enter User can.

# Functional Requirement:

* 1. Login Authentication

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Req ID | Requirement | Description | Priority | Note |
| Bill\_R001\_20/7/18 | 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\_20/7/18 | Logout | User logs out | High | User has to lout of the application successfully. |

* 1. AEE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Req ID | Requirement | Description | Priority | Note |
| Bill\_R003\_20/7/18 | Bill Generation AE | If AE wants to raise the Bill they select this | High | Only WIN Numbers for which Contractor acceptance has completed, those have to be displayed here. |
| Bill\_R004\_20/7/18 | 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\_20/7/18 | 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\_20/7/18 | Selection of Items in Work Details | AEE can raise to the desired number of Items for either Authorized Items or Supplementary Items r for both. | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. For any item if Contractor accepted that records at DEE, If again DEE or EE or SE changes the measurements, then that recordings only will be reflected. During Supplementary Items Bill Raising, AE has to enter Amount of the Item. After Selection of Items Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. |
| Bill\_R007\_20/7/18 | Selection of Bill Type | AEE can select weather the Bill is Part or Final Bill from Drop Down. | High | Mandatory |
| Bill\_R008\_20/7/18 | 3rd Party QC Report | Upload of Report | High | Only .PDF, Mandatory Field |
| Bill\_R009\_20/7/18 | GHMC QC Report | Upload of Report | High | Only .PDF, Mandatory Field |
| Bill\_R0010\_20/7/18 | Work Slip | Upload of Report | High | Only .PDF, Mandatory Field |
| Bill\_R0011\_20/7/18 | 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). If any of the charge is Zero, enter Zero. |
| Bill\_R0012\_20/7/18 | Certificate | Certificates | High | AEE can Select all the list of Certificates or their Desired Certificates. For List of Certificates please refer (3.8) |
| Bill\_R0013\_20/7/18 | Remarks | Enter Remarks | High | Mandatory |
| Bill\_R0014\_20/7/18 | Others | Upload any other Document | High | Not Mandatory. If Document Uploaded then Remarks for that Other document upload is mandatory |
| Bill\_R0015\_20/7/18 | Comparative Statement Upload | Upload | Medium | Only .PDF, Not a Mandatory Field |
| Bill\_R0016\_20/7/18 | BOQ Items | Display List of Supplementary Items | Medium | Only Mandatory if Comparative Statement Uploaded. |
| Bill\_R0017\_20/7/18 | 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\_R018\_20/7/18 | Submit | Bill has to be Submitted to DEE | High | Unique ID for this Bill is generated. Once the Bill Generated it cannot be deleted. |
| Bill\_R019\_20/7/18 | 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\_R020\_20/7/18 | Revert Applications | Applications which are Reverted from the DEE has to be displayed | Medium |  |
| Bill\_R021\_20/7/18 | WIN Selection for Revert | Click on WIN Number for the Revert Applications | 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\_R0022\_20/7/18 | Selection of Items in Revert | AEE can raise to the desired number of Items for the Revert Applications | High | List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. For any item if Contractor accepted that records at DEE, If again DEE or EE or SE changes the measurements, then that recordings only will be reflected. During Supplementary Items Bill Raising, AE has to enter Amount of the Item. After Selection of Items Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. |
| Bill\_R0023\_20/7/18 | Selection of Bill Type for Revert Applications | AEE can select weather the Bill is Part or Final Bill from Drop Down. | High | Mandatory |
| Bill\_R0024\_20/7/18 | 3rd Party QC Report for Revert Applications | Upload of Report for the Revert Applications | High | Only .PDF, Mandatory Field.  Show the uploaded Report if uploaded. |
| Bill\_R0025\_20/7/18 | GHMC QC Report for Revert Applications | Upload of Report for the Revert Applications | High | Only .PDF, Mandatory Field.  Show the uploaded Report if uploaded. |
| Bill\_R0026\_20/7/18 | Work Slip for Revert Applications | Upload of Report for the Revert Applications | High | Only .PDF, Mandatory Field.  Show the Uploaded Report if uploaded. |
| Bill\_R0027\_20/7/18 | Charges for Revert Applications | Enter Charges and Upload Document for the Revert Applications | High | Charges are Seigniorage, EOT, QC Recovery, Price Adjustment (Addition or Subtraction). For Detailed Explanation regarding this please refer (3.6). If any of the charge is Zero, enter Zero. Show the uploaded Report if uploaded. |
| Bill\_R0028\_20/7/18 | Certificate for Revert Applications | Certificates for the Revert Applications | High | AEE can Select all the list of Certificates or their Desired Certificates. For List of Certificates please refer (3.8) |
| Bill\_R0029\_20/7/18 | Remarks for Revert Applications | Enter Remarks for the Revert Applications | High | Mandatory |
| Bill\_R030\_20/7/18 | Others for Revert Applications | Upload any other Document for the Revert Applications | High | Not Mandatory. If Document Uploaded then Remarks for that Other document upload is mandatory |
| Bill\_R031\_20/7/18 | Comparative Statement Upload for Revert Applications | Upload for the Revert Applications | Medium | Only .PDF, Not a Mandatory Field.  Show the Uploaded Report if Uploaded. |
| Bill\_R032\_20/7/18 | BOQ Items for Revert Applications | Display List of Supplementary Items for the Revert Applications | Medium | Only Mandatory if Comparative Statement Uploaded.  Show the Uploaded Report if Uploaded. |
| Bill\_R033\_20/7/18 | Previous Bill for Revert Applications | If there are any Previous Raised Bills it will be Displayed for the Revert Applications | Medium | Si. No, Bill Number, Amount of the Bill along with Total will be displayed. |
| Bill\_R034\_20/7/18 | Submit for Revert Applications | Bill has to be Submitted to DEE | High | Unique ID for this Bill is generated. Once the Bill Generated it cannot be deleted. |
| Bill\_R035\_20/7/18 | 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\_R0036\_20/7/18 | 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\_R0037\_20/7/18 | 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\_R0038\_20/7/18 | Bill Generation DEE | If DEE wants to Verify the Bill forwarded by AE they select. | High |  |
| Bill\_R0039\_20/7/18 | List of WIN Numbers | List of WIN Numbers forward by the AEE under that DEE are displayed. | 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\_R0040\_20/7/18 | 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\_R0041\_20/7/18 | Bill Items | AEE raised Number of Items | High | Only AE/AEE Selected Items has to be displayed along with List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. DEE can Edit Supplementary Items Rate. |
| Bill\_R0042\_20/7/18 | Bill Type | No Edit | High | Only AE/AEE Selected Bill Type |
| Bill\_R0043\_20/7/18 | 3rd Party QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R044\_20/7/18 | GHMC QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R045\_20/7/18 | Work Slip | View of Work Slip Uploaded by AE/AEE. | High |  |
| Bill\_R046\_20/7/18 | 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\_R047\_20/7/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0048\_20/7/18 | Remarks | Enter the Remarks | High | Mandatory. AEE Entered Remarks View. |
| Bill\_R0049\_20/7/18 | Others | View of any other upload document by AE/AEE | High | If Document uploaded remarks should be visible. |
| Bill\_R0050\_20/7/18 | Comparative Statement Upload | View of Comparative Statement upload document by AE/AEE | High |  |
| Bill\_R0051\_20/7/18 | BOQ Items | Selected BOQ Items has to be displayed. | High |  |
| Bill\_R0052\_20/7/18 | 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\_R0053\_20/7/18 | Submit | Bill has to be Submitted to EE | High | Existing Unique ID Should not change. |
| Bill\_R0054\_20/7/18 | 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\_R0055\_20/7/18 | Revert | Revert the Application to AEE | High |  |
| Bill\_R056\_20/7/18 | 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\_R057\_20/7/18 | WIN Selection for Reverted Applications | 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\_R058\_20/7/18 | Selection of Items for Reverted Applications | AEE raised Number of Items | High | Only AE/AEE Selected Items has to be displayed along with List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. DEE can Edit Supplementary Items Rate. |
| Bill\_R059\_20/7/18 | Bill Type for Reverted Applications | No Edit | High | Only AE/AEE Selected Bill type. |
| Bill\_R060\_20/7/18 | 3rd Party QC Report for Reverted Applications | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R061\_20/7/18 | GHMC QC Report for Reverted Applications | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0062\_20/7/18 | Work Slip for Reverted Applications | View of Work Slip Uploaded by AE/AEE. | High |  |
| Bill\_R0063\_20/7/18 | Charges for Reverted Applications | 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\_R0064\_20/7/18 | Certificate for Reverted Applications | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0065\_20/7/18 | Remarks for Reverted Applications | Enter the Remarks | High | Mandatory. AEE Entered Remarks View. |
| Bill\_R0066\_20/7/18 | Others for Reverted Applications | View of any other upload document by AE/AEE | High | If Document uploaded remarks should be visible. |
| Bill\_R0067\_20/7/18 | Comparative Statement Upload for Reverted Applications | View of Comparative Statement upload document by AE/AEE | High |  |
| Bill\_R0068\_20/7/18 | BOQ Items for Reverted Applications | Selected BOQ Items has to be displayed. | High |  |
| Bill\_R0069\_20/7/18 | Previous Bill for Reverted Applications | 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\_R070\_20/7/18 | Submit for Reverted Applications | Bill has to be Submitted to EE | High | Existing Unique ID Should not change. |
| Bill\_R071\_20/7/18 | Bill Abstract for Reverted Applications | 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\_R072\_20/7/18 | Revert for Reverted Applications | Bill has to be reverted back to AE/AEE | High |  |
| Bill\_R073\_20/7/18 | 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\_R0074\_20/7/18 | 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\_R0075\_20/7/18 | 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

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| Req ID | Requirement | Description | Priority | Note |
| Bill\_R0076\_20/7/18 | Bill Generation EE | If EE wants to Verify the Bills forwarded by DEE they select. | High |  |
| Bill\_R0077\_20/7/18 | List of WIN Numbers | List of WIN Numbers forward by the DEE are displayed. | 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\_R0078\_20/7/18 | 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\_R0079\_20/7/18 | Bill Items | AEE raised Number of Items | High | Only AE/AEE Selected Items has to be displayed along with List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. EE can Edit Supplementary Items Rate. |
| Bill\_R0080\_20/7/18 | Bill Type | No Edit | High | Only AE/AEE Selected Bill Type |
| Bill\_R0081\_20/7/18 | 3rd Party QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0082\_20/7/18 | GHMC QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0083\_20/7/18 | Work Slip | View of Work Slip Uploaded by AE/AEE. | High |  |
| Bill\_R084\_20/7/18 | 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). EE Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R085\_20/7/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R086\_20/7/18 | Remarks | Enter the Remarks | High | Mandatory. AE/AEE and DEE Entered Remarks View. |
| Bill\_R0083\_20/7/18 | Others | View of any other upload document by AE/AEE | High | If Document uploaded remarks should be visible. |
| Bill\_R084\_20/7/18 | Comparative Statement Upload | View of Comparative Statement upload document by AE/AEE | High |  |
| Bill\_R085\_20/7/18 | BOQ Items | Selected BOQ Items has to be displayed. | High |  |
| Bill\_R086\_20/7/18 | 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\_R087\_20/7/18 | Submit | Bill has to be Submitted to EE | High | Existing Unique ID Should not change. |
| Bill\_R088\_20/7/18 | 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\_R0089\_20/7/18 | Revert | Revert the Application to DEE | High |  |
| Bill\_R0090\_20/7/18 | 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\_R0091\_20/7/18 | 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\_R0092\_20/7/18 | 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\_R0093\_20/7/18 | 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. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. EE can Edit Supplementary Items Rate. |
| Bill\_R0094\_20/7/18 | 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\_R0095\_20/7/18 | Bill Type for Revert | View of Bill Type | High | No Provision to Change |
| Bill\_R0096\_20/7/18 | 3rd Party QC Report for Revert | Report View | High | Only View of Report |
| Bill\_R0097\_20/7/18 | 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\_R0098\_20/7/18 | Certificate for Revert | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0099\_20/7/18 | Remarks for Revert | Enter the Remarks | High | Mandatory. View of Remarks entered by AEE and DEE. |
| Bill\_R0100\_20/7/18 | 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\_R0101\_20/7/18 | Submit for Reverted | Bill has to be Submitted to HD | High | Existing Unique ID Should not change. |
| Bill\_R0102\_20/7/18 | 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\_R0103\_20/7/18 | DB Note Revert | DB Note Revert | Medium | DB note submit to DAO, Revert to HD. |
| Bill\_R0104\_20/7/18 | 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\_R0105\_20/7/18 | Send to ERP | Pass Order Details Sent to ERP | Medium |  |
| Bill\_R0106\_20/7/18 | 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\_R0107\_20/7/18 | Bill Generation HD | If HD wants to Verify the Bill forwarded by EE they select this | High |  |
| Bill\_R0108\_20/7/18 | List of WIN Numbers | List of WIN Numbers forward by the DEE are displayed. | 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\_R0109\_20/7/18 | 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\_R0110\_20/7/18 | Bill Items | AEE raised Number of Items | High | Only AE/AEE Selected Items has to be displayed along with List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. HD can Edit Supplementary Items Rate. |
| Bill\_R0111\_20/7/18 | Bill Type | No Edit | High | Only AE/AEE Selected Bill Type |
| Bill\_R0112\_20/7/18 | 3rd Party QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0113\_20/7/18 | GHMC QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0114\_20/7/18 | Work Slip | View of Work Slip Uploaded by AE/AEE. | High |  |
| Bill\_R0115\_20/7/18 | 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). EE Can edit the charges but Uploading of Concerned Document mandatory |
| Bill\_R0116\_20/7/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0117\_20/7/18 | Remarks | Enter the Remarks | High | Mandatory. AE/AEE, DEE and EE Entered Remarks View. |
| Bill\_R0118\_20/7/18 | Others | View of any other upload document by AE/AEE | High | If Document uploaded remarks should be visible. |
| Bill\_R0119\_20/7/18 | Comparative Statement Upload | View of Comparative Statement upload document by AE/AEE | High |  |
| Bill\_R0120\_20/7/18 | BOQ Items | Selected BOQ Items has to be displayed. | High |  |
| Bill\_R0121\_20/7/18 | 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\_R0122\_20/7/18 | Generate DB Note | DB Note has to be Generated. | High | For DB Note Refer (3.7) |
| Bill\_R0123\_20/7/18 | DB Note | If authorized Excess or unauthorized excess exists. HD has to enter Supplementary Agreement Number and upload the Supplementary Agreement. If any EOT is applicable they can select the expected date of Completion. | High |  |
| Bill\_R0124\_20/7/18 | 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\_R0125\_20/7/18 | List of WIN Numbers in Reverted Applications | List of WIN Numbers forward by the DEE are displayed. | 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\_R0126\_20/7/18 | WIN Number Selection for Reverted Applications | 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\_R0127\_20/7/18 | Bill Items for Reverted Applications | AEE raised Number of Items | High | Only AE/AEE Selected Items has to be displayed along with List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. HD can Edit Supplementary Items Rate. |
| Bill\_R0128\_20/7/18 | Bill Type for Reverted Applications | No Edit | High | Only AE/AEE Selected Bill Type |
| Bill\_R0129\_20/7/18 | 3rd Party QC Report for Reverted Applications | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0130\_20/7/18 | GHMC QC Report for Reverted Applications | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0131\_20/7/18 | Work Slip for Reverted Applications | View of Work Slip Uploaded by AE/AEE. | High |  |
| Bill\_R0132\_20/7/18 | Charges for Reverted Applications | 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\_R0133\_20/7/18 | Certificate for Reverted Applications | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0134\_20/7/18 | Remarks for Reverted Applications | Enter the Remarks | High | Mandatory. AE/AEE, DEE and EE Entered Remarks View. |
| Bill\_R0135\_20/7/18 | Others for Reverted Applications | View of any other upload document by AE/AEE | High | If Document uploaded remarks should be visible. |
| Bill\_R0136\_20/7/18 | Comparative Statement Upload for Reverted Applications | View of Comparative Statement upload document by AE/AEE | High |  |
| Bill\_R0137\_20/7/18 | BOQ Items for Reverted Applications | Selected BOQ Items has to be displayed. | High |  |
| Bill\_R0138\_20/7/18 | Previous Bill for Reverted Applications | 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\_R0139\_20/7/18 | Generate DB Note for Reverted Applications | DB Note has to be Generated. | High | For DB Note Refer (3.7) |
| Bill\_R0140\_20/7/18 | DB Note View for Reverted Applications | If authorized Excess or unauthorized excess exists. HD has to enter Supplementary Agreement Number and upload the Supplementary Agreement. If any EOT is applicable they can select the expected date of Completion. | High |  |
| Bill\_R0141\_20/7/18 | 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\_R0142\_20/7/18 | 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\_R0143\_20/7/18 | 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\_R0144\_20/7/18 | Pass Order Generation DAO | If DAO wants to Verify the Bill forwarded by EE they select this | High |  |
| Bill\_R0145\_20/7/18 | List of WIN Numbers | List of WIN Numbers forward by the DEE are displayed. | 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\_R0146\_20/7/18 | 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\_R0147\_20/7/18 | Bill Items | AEE raised Number of Items | High | Only AE/AEE Selected Items has to be displayed along with List of Items with their Description, Estimated Quantity, Total Recorded Quantity, Rate, Per, Amount. Total of Estimated Work Done, Total of Supplementary Items, Total Work Done, Total work done exceeded so restricted to ECV (Only if Total work done exceeded) Tender Percentage, Tender Amount, Total Pay, Total Pay (in Round) has to be displayed. 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. If Total Work Done exceeds Amount of Contract and Estimated Contract Value then Bill should be on Estimated Contract Value. If Total work done exceeds Amount of Contract and less than Estimated Contract Value then consider that Total work Done. |
| Bill\_R0148\_20/7/18 | Bill Type | No Edit | High | Only AE/AEE Selected Bill Type |
| Bill\_R0149\_20/7/18 | 3rd Party QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0150\_20/7/18 | GHMC QC Report | View of Reports uploaded by AE/AEE. | Medium |  |
| Bill\_R0151\_20/7/18 | Work Slip | View of Work Slip Uploaded by AE/AEE. | High |  |
| Bill\_R0152\_20/7/18 | 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\_R0153\_20/7/18 | Certificate | View of Certificates | High | View of Certificates selected by AEE. No Provision for Change. |
| Bill\_R0154\_20/7/18 | Remarks | Enter the Remarks | High | Mandatory. AE/AEE and DEE Entered Remarks View. |
| Bill\_R0155\_20/7/18 | Others | View of any other upload document by AE/AEE | High | If Document uploaded remarks should be visible. |
| Bill\_R0156\_20/7/18 | Comparative Statement Upload | View of Comparative Statement upload document by AE/AEE | High |  |
| Bill\_R0157\_20/7/18 | BOQ Items | Selected BOQ Items has to be displayed. | High |  |
| Bill\_R0158\_20/7/18 | 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\_R0159\_20/7/18 | DB Note View | DB Note | High | Regarding DB Note refer (3.7) |
| Bill\_R0160\_20/7/18 | Pass Order Generation | Pass Order Is generated | High | Regarding Pass Order refer (3.8). DAO has to enter Departmental Supply, Others in Deductions and GST (Reimbursement Percentage) in Inclusions. |
| Bill\_R0161\_20/7/18 | 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\_R0162\_20/7/18 | 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\_R0163\_20/7/18 | 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\_R0164\_20/7/18 | 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:

