RA Billing Management System
(Ver 1.0)

Rev. No	Date	Purpose	Prepared by	Reviewed by	Approved by
0		Issued for Implementation	Rajesh Gupta	Suresh Khalko	

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1. INTRODUCTION

A centralized web application for handling Tender SOR items for RA billing and final executed quantities at project site.

2. FEATURES

Following are the features module wise:

RCM Module:

Populates Job data
Add/Update Users (Billing Engineers and Area Coordinators)
Add New SOR Item
Approval/Editing of RA Bill
Approval for Splitted Items by Vendors
Final Checklist updation
Reports
- Abstract
- RA Bill

Area Coordinator Module:

Populates Job data
Approval of RA Bill
Final Checklist updation
Reports
- Abstract
- RA Bill

Billing Module:

Populates Job data
Edit Site Quantity
Approval of RA Bill
Final Checklist updation
Reports
- Abstract
- Ra Bill

Vendor Module:
Split Activity
RA Bill entry
Add / Update Measurement Sheet
Reports
- Abstract
- RA Bill

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3. SYSTEM REQUIREMENT

This System is web based application. This can be accessed through a web browser with network connection in the client machine. However minimum system requirements of the client machine are as follows.

Hardware

P II / III / IV
16 MB RAM
Network Connectivity

Software

MS Windows 9x/XP/NT/2000/2003
Internet browser like Chrome, Fire fox and Internet Explorer 9.0 or above

4. BRIEF SYSTEM DETAILS

1) A complete web-based and self-help system
2) Simple to operate by EIL users and authorized Vendors
3) This application supports following ROLES:
   - RCM
   - Area coordinators
   - Billing Engineers
   - Vendors

5. OPERATING DETAILS

Login Screen

After succesfull login by RCM following menu options will appear:

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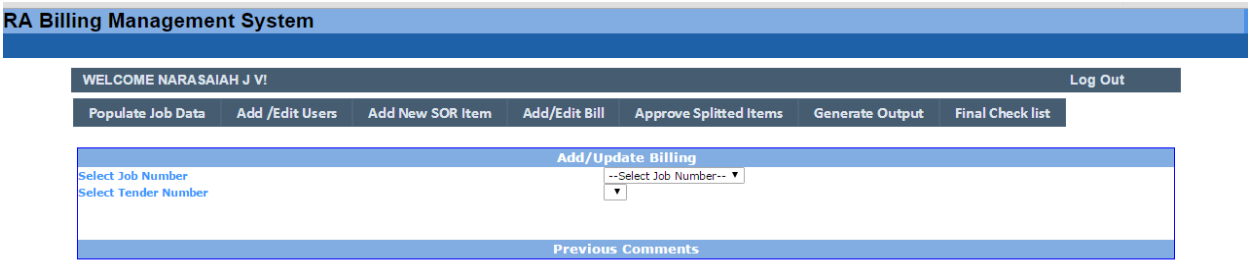
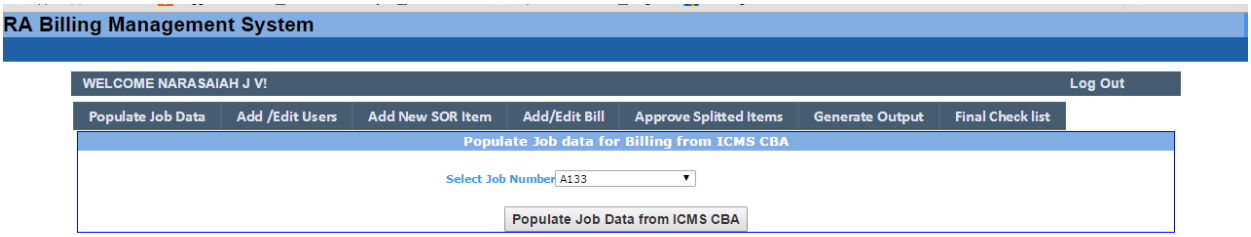
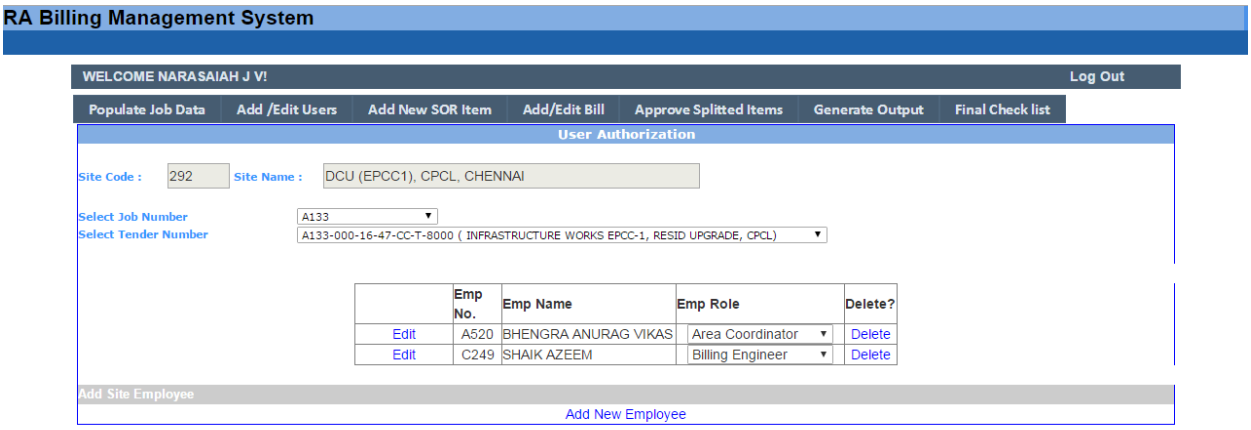


Populate Job Data Screen:



After clicking on the button “Populate Job Data from ICMS CBA”, job data is populated for the selected job number.

Add/Edit Users screen:



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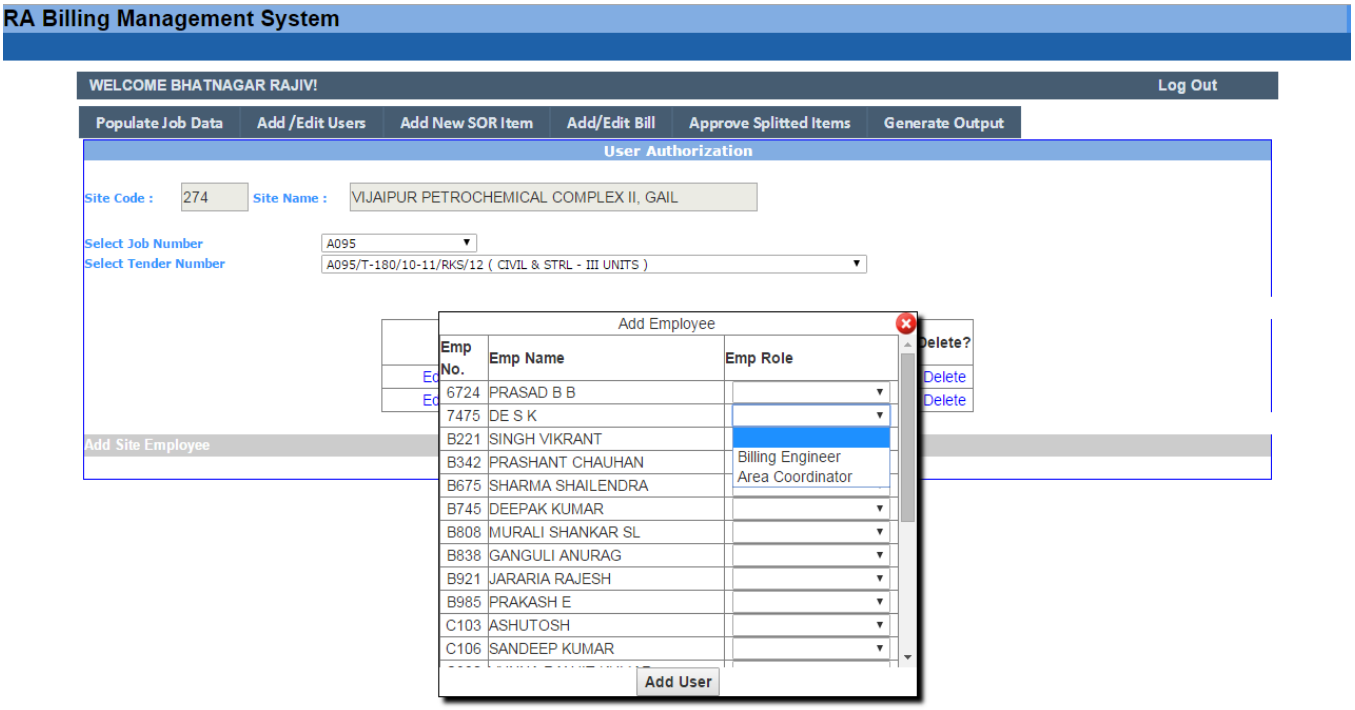
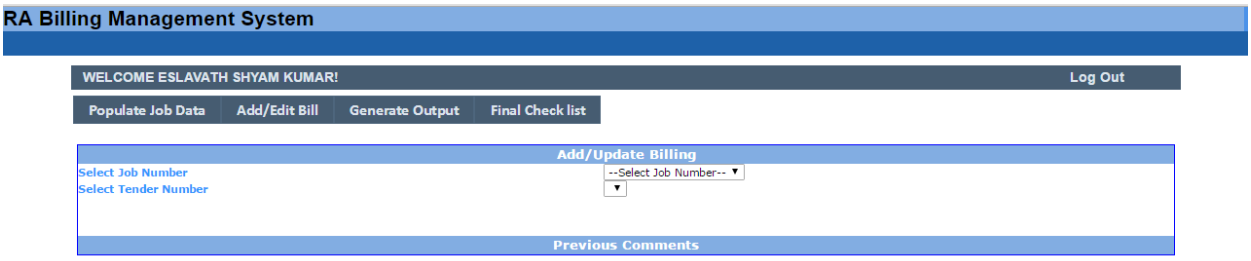
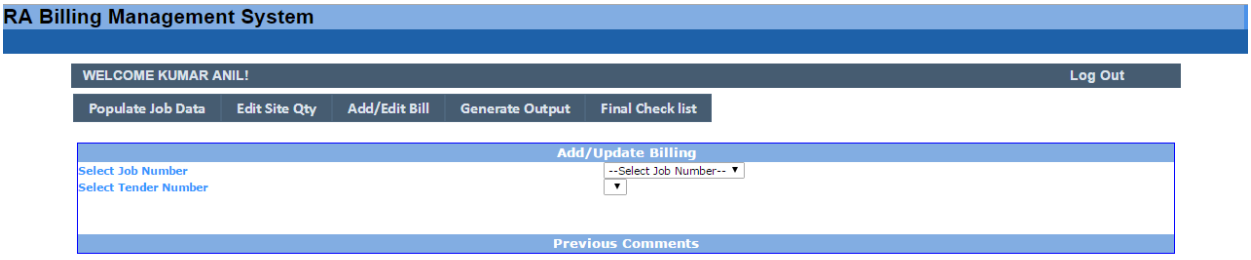
After clicking on “Add New Employee”, following screen will appear:



Area Coordinator Menu options screen:



Billing Engineer Menu options:



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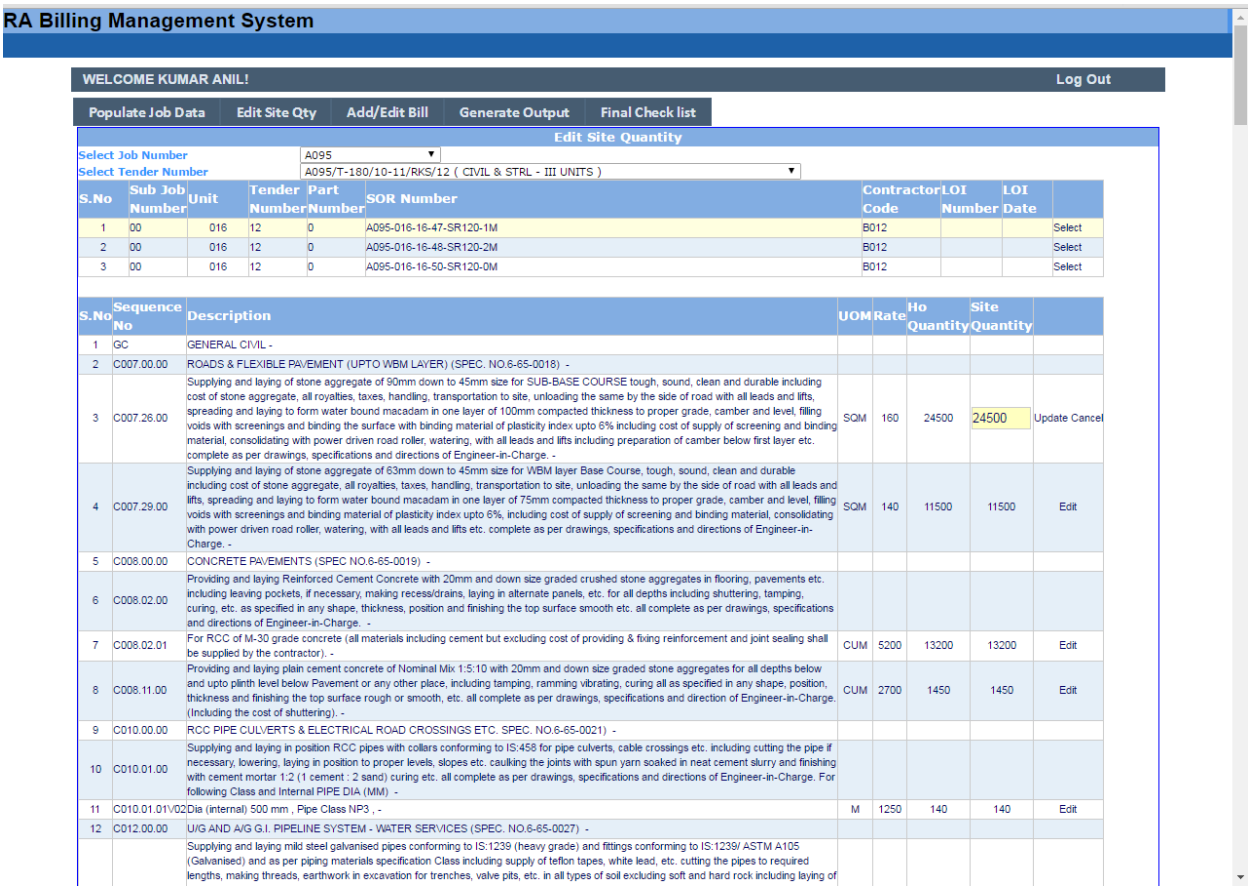
Edit Site Quantity:



Contractor Menu options:

Split Activity Option for Contractor:

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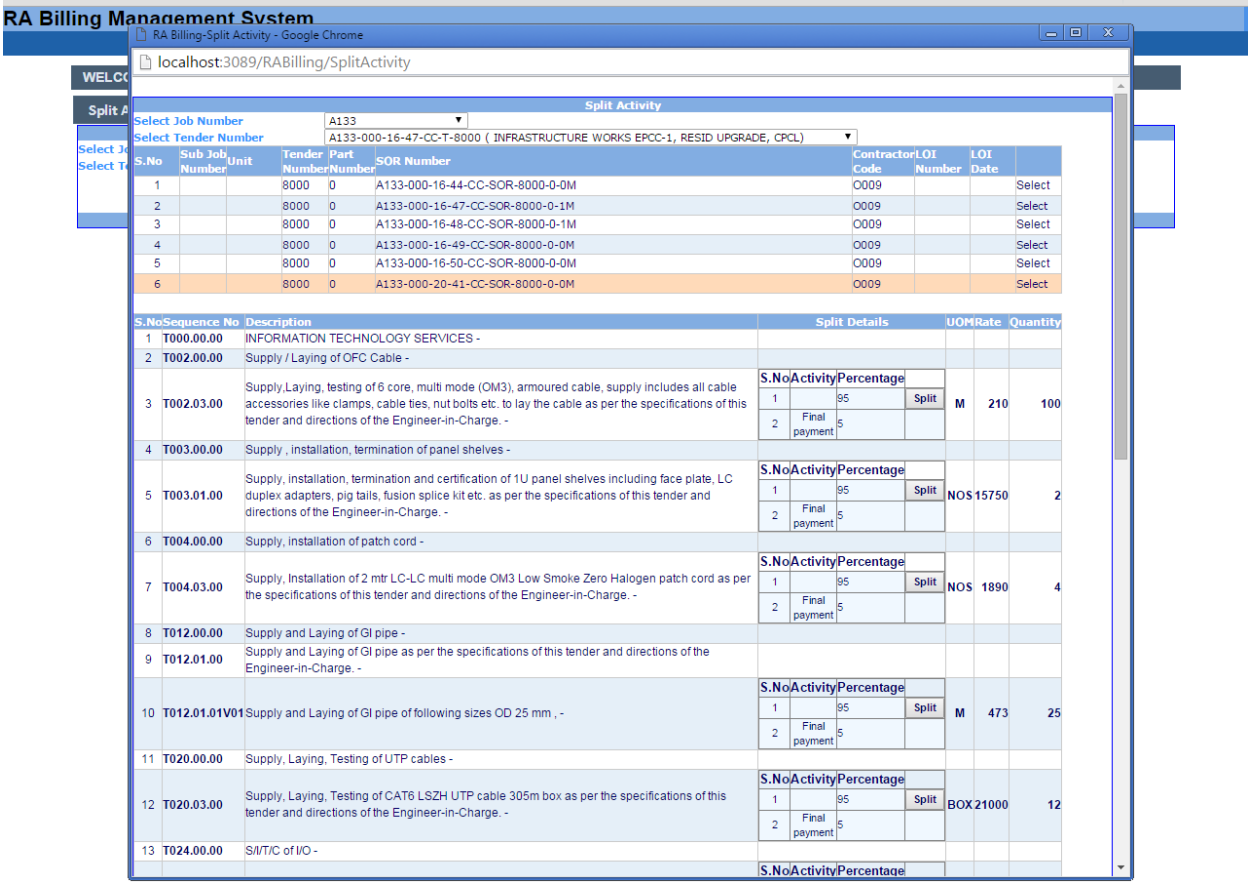

Clicking on Split Button, following screen will appear:

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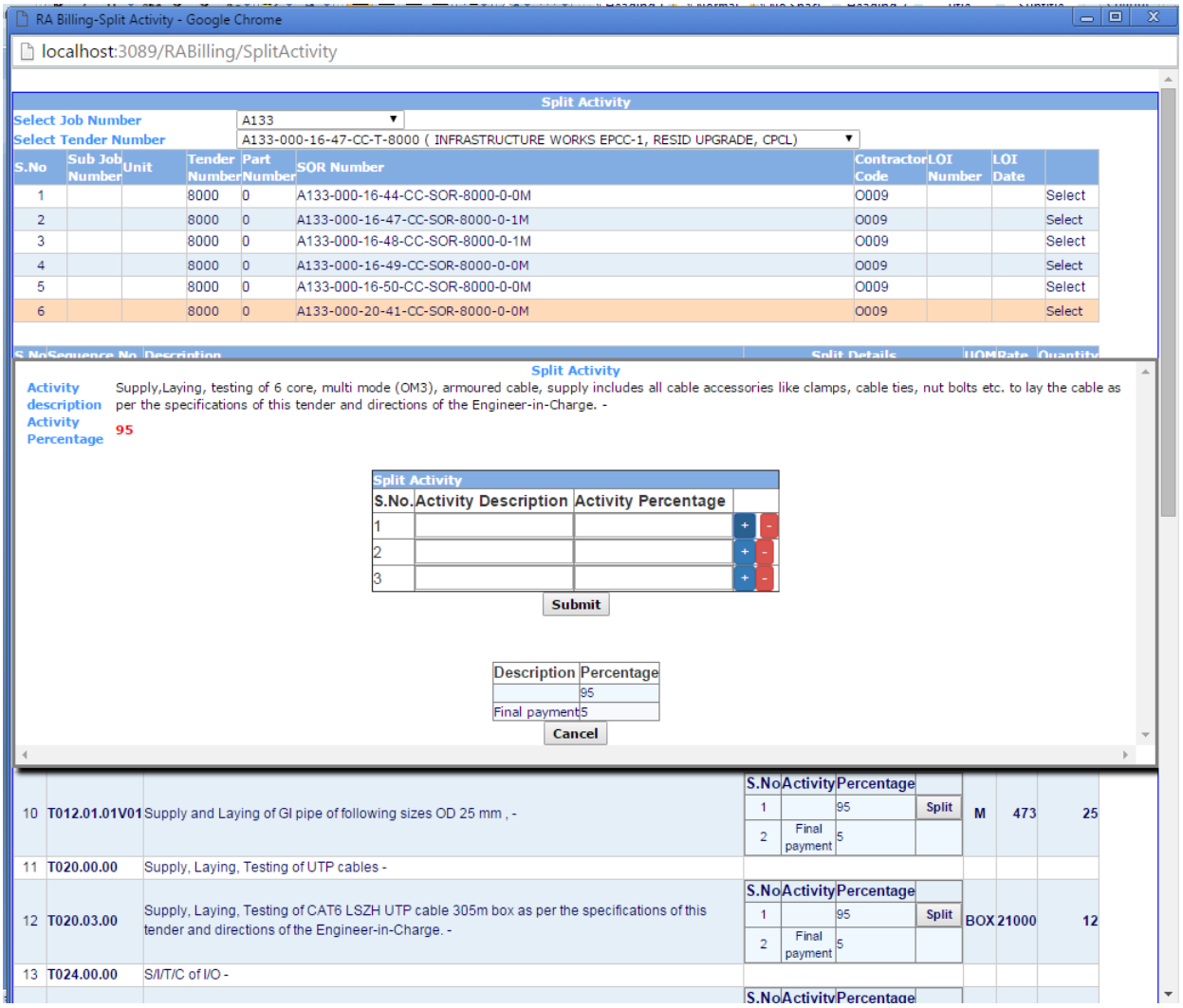

After entering the activity details and percentage, flowing screen will appear:

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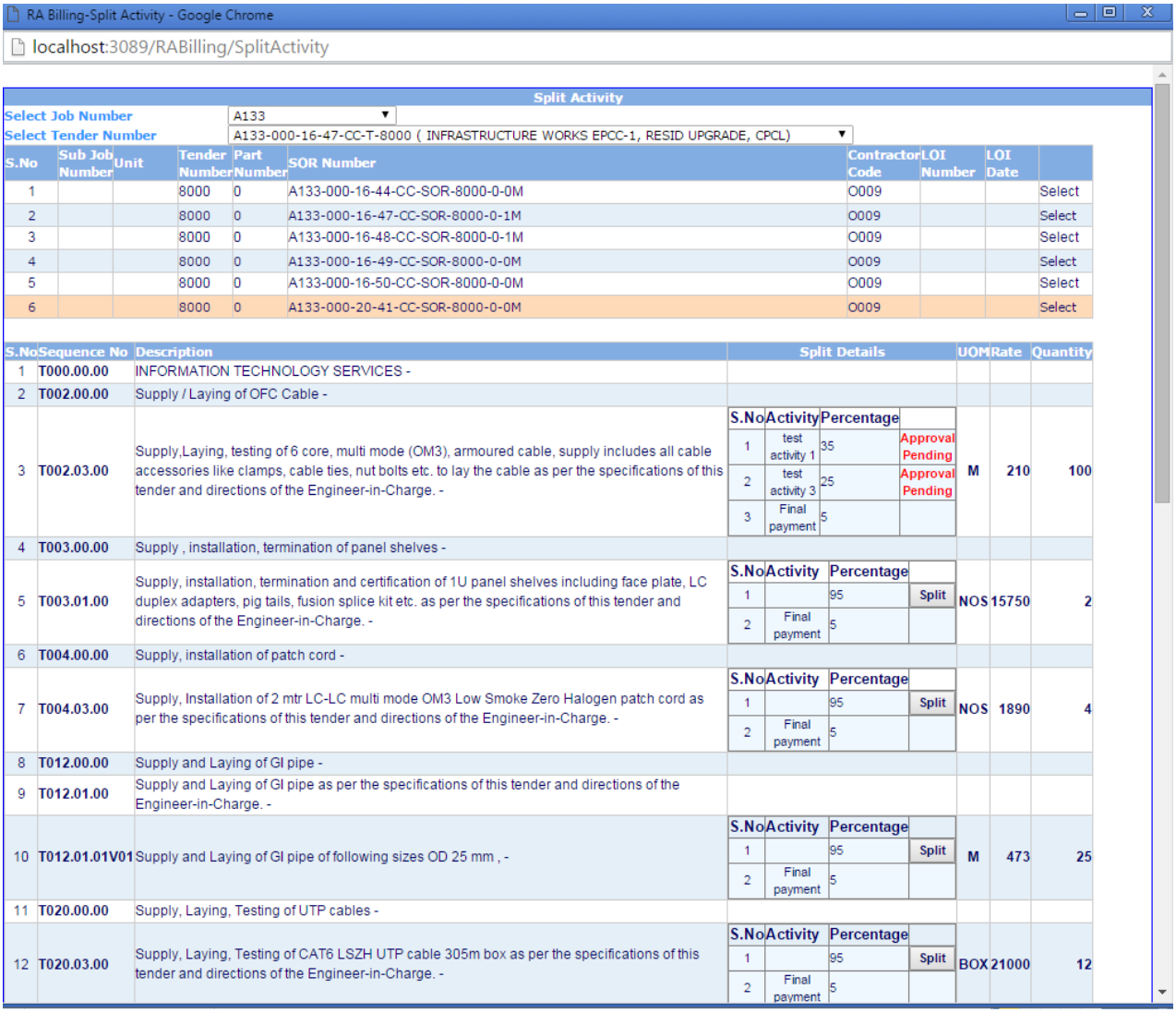
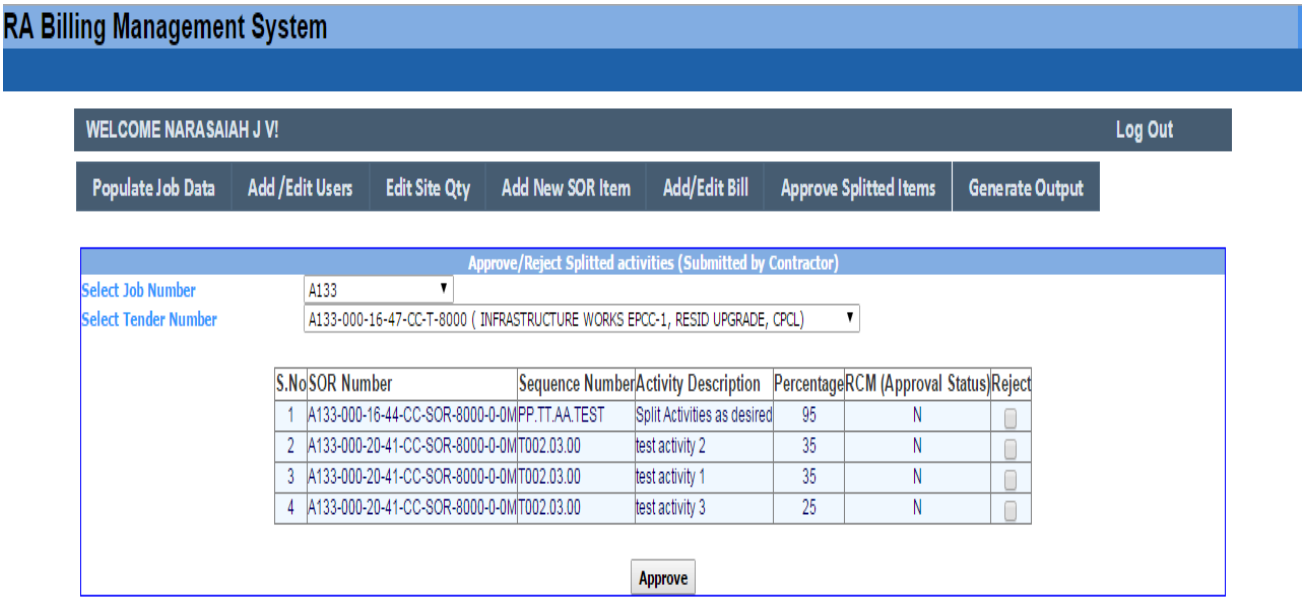


RCM's Activity approval/Rejection screen:



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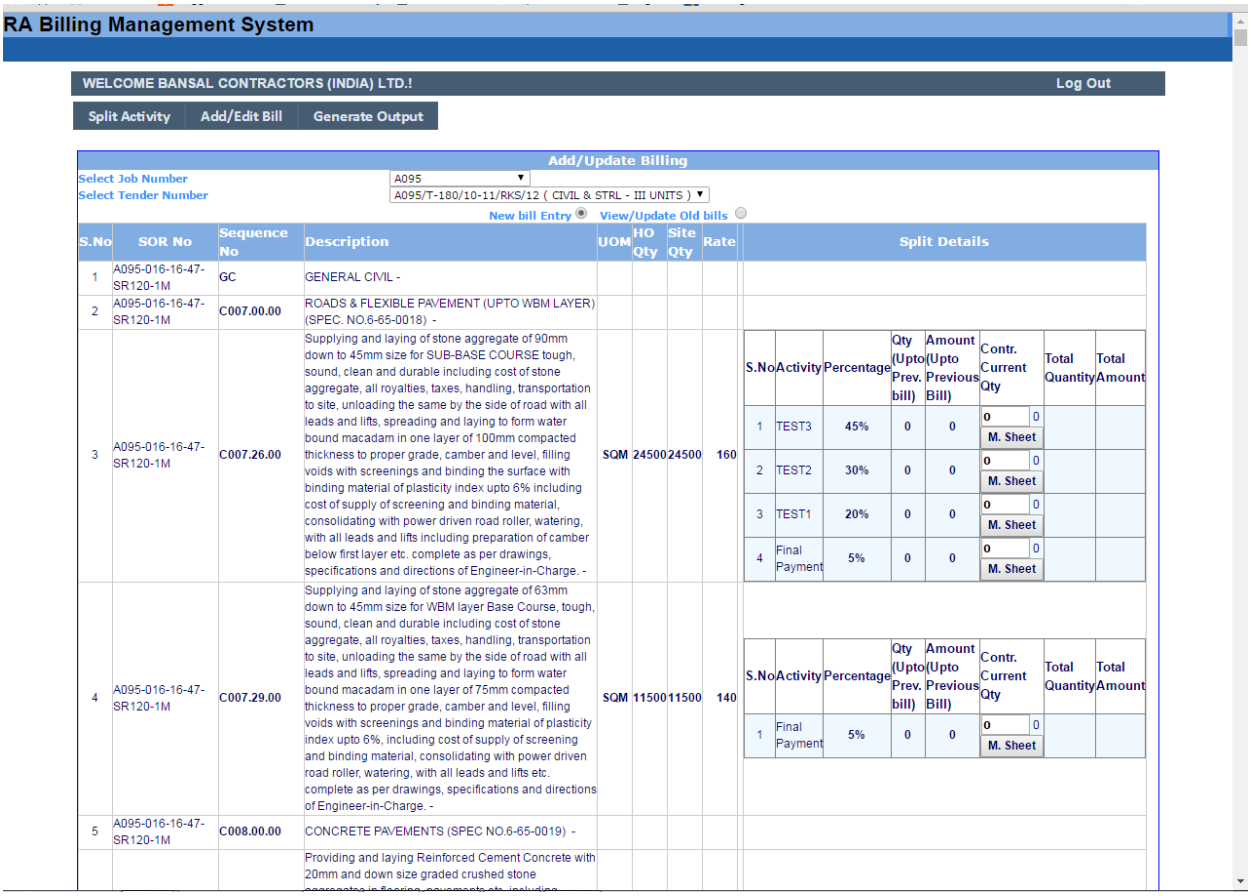
After RCM approves the activities, than Contractor will be able to raise the bill as shown in below screen.

Bill Entry by Contractor:



Clicking on Measurement Sheet button, following screen may appear:

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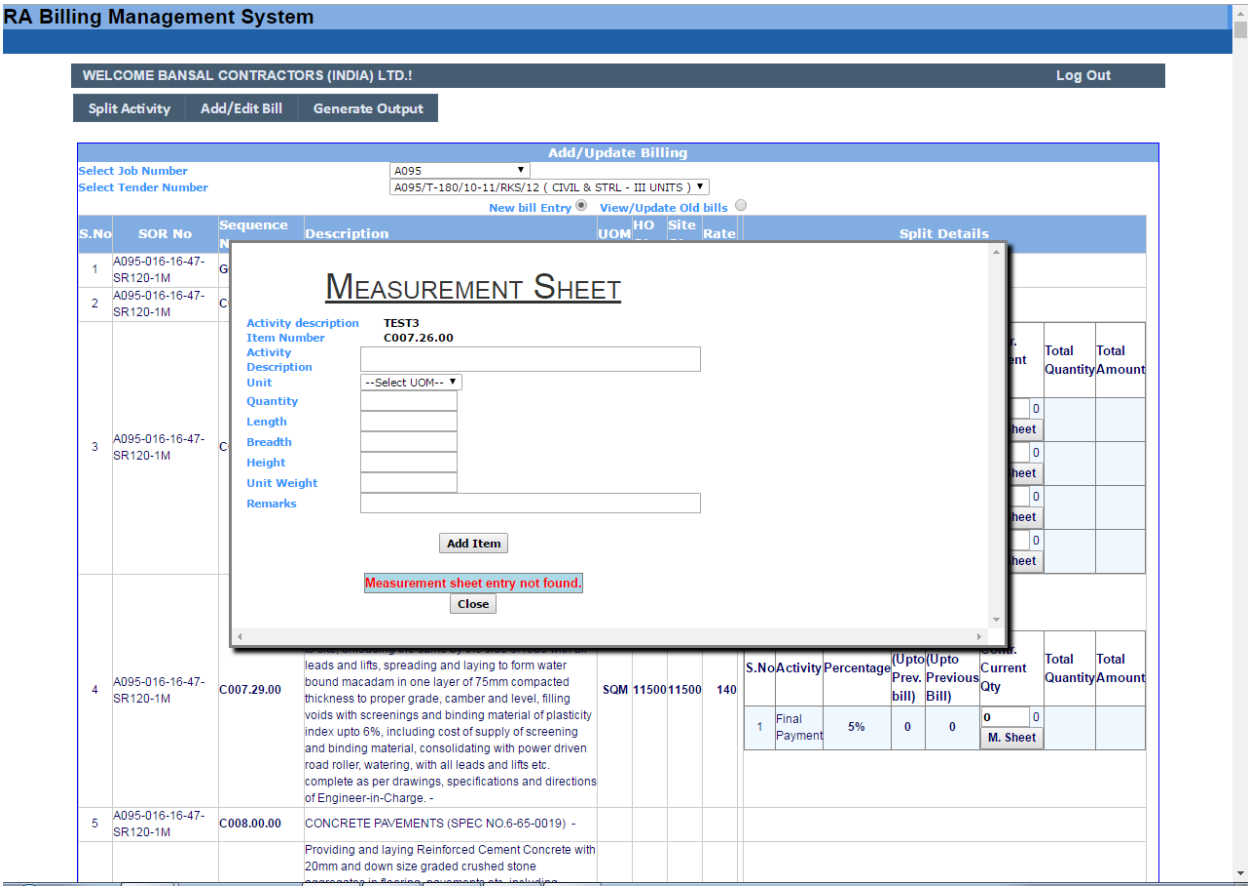
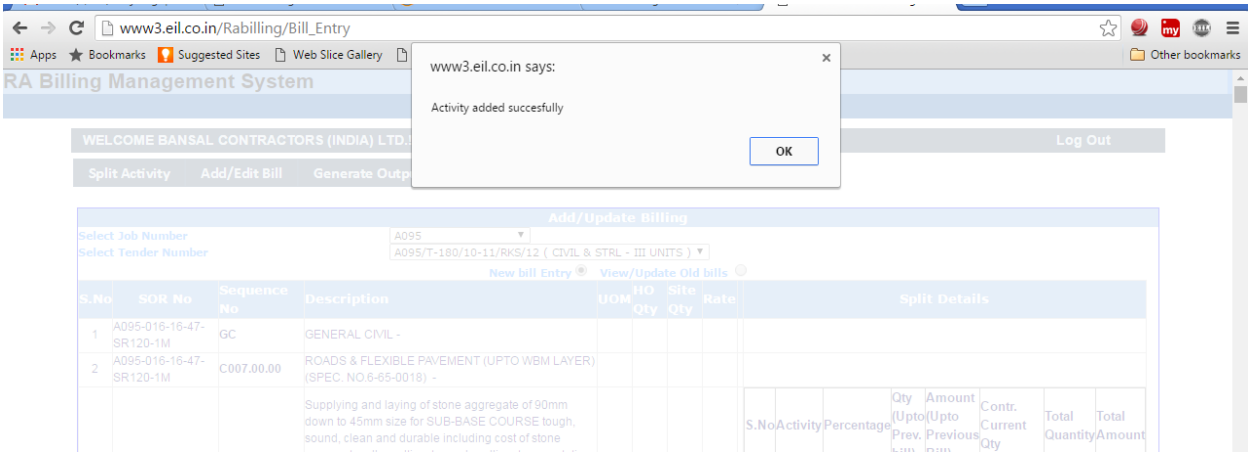


After adding the quantities following success screen will appear:



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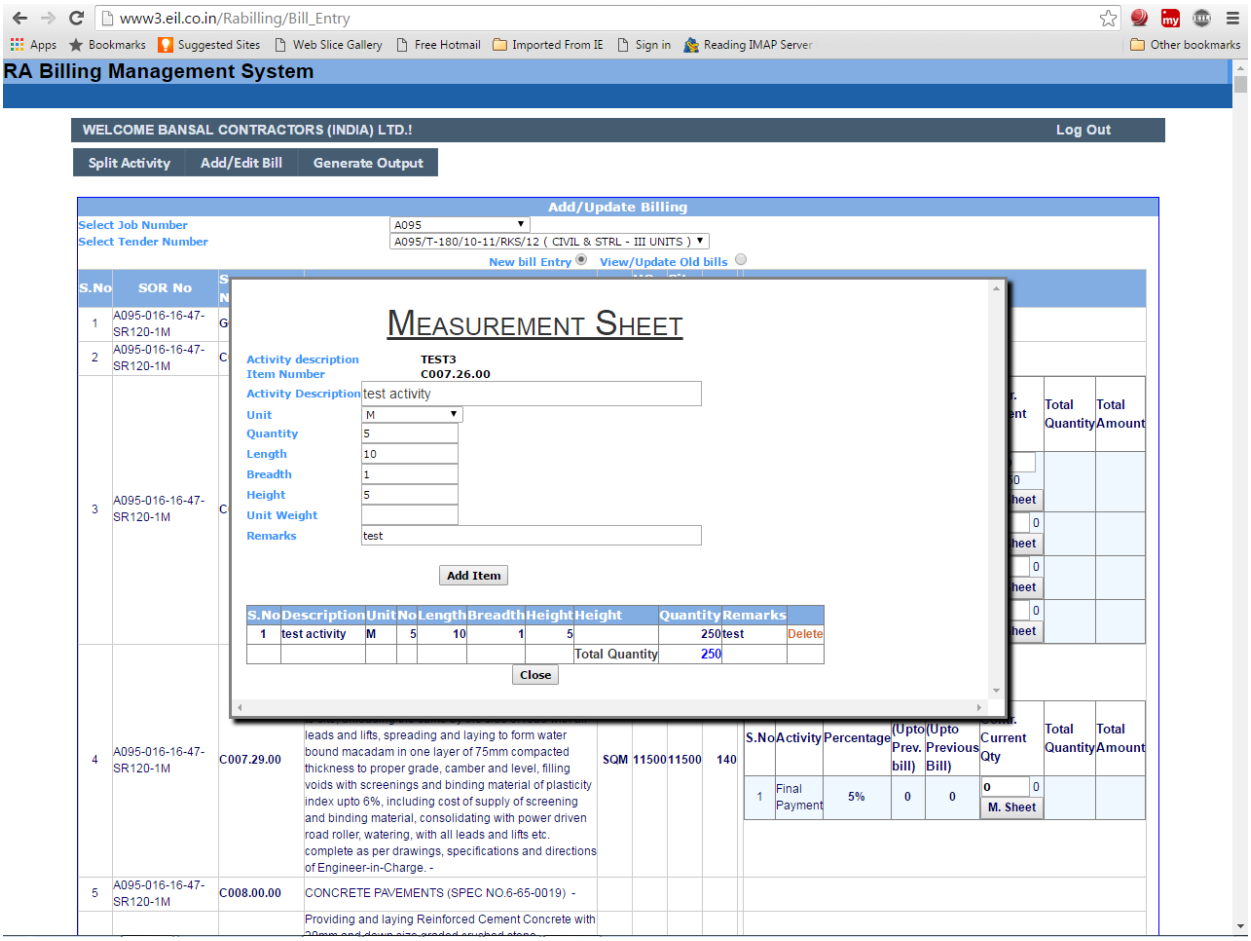

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Billing Engineer screen for Approving contractor's bill

After selecting the bill, following screen will appear:

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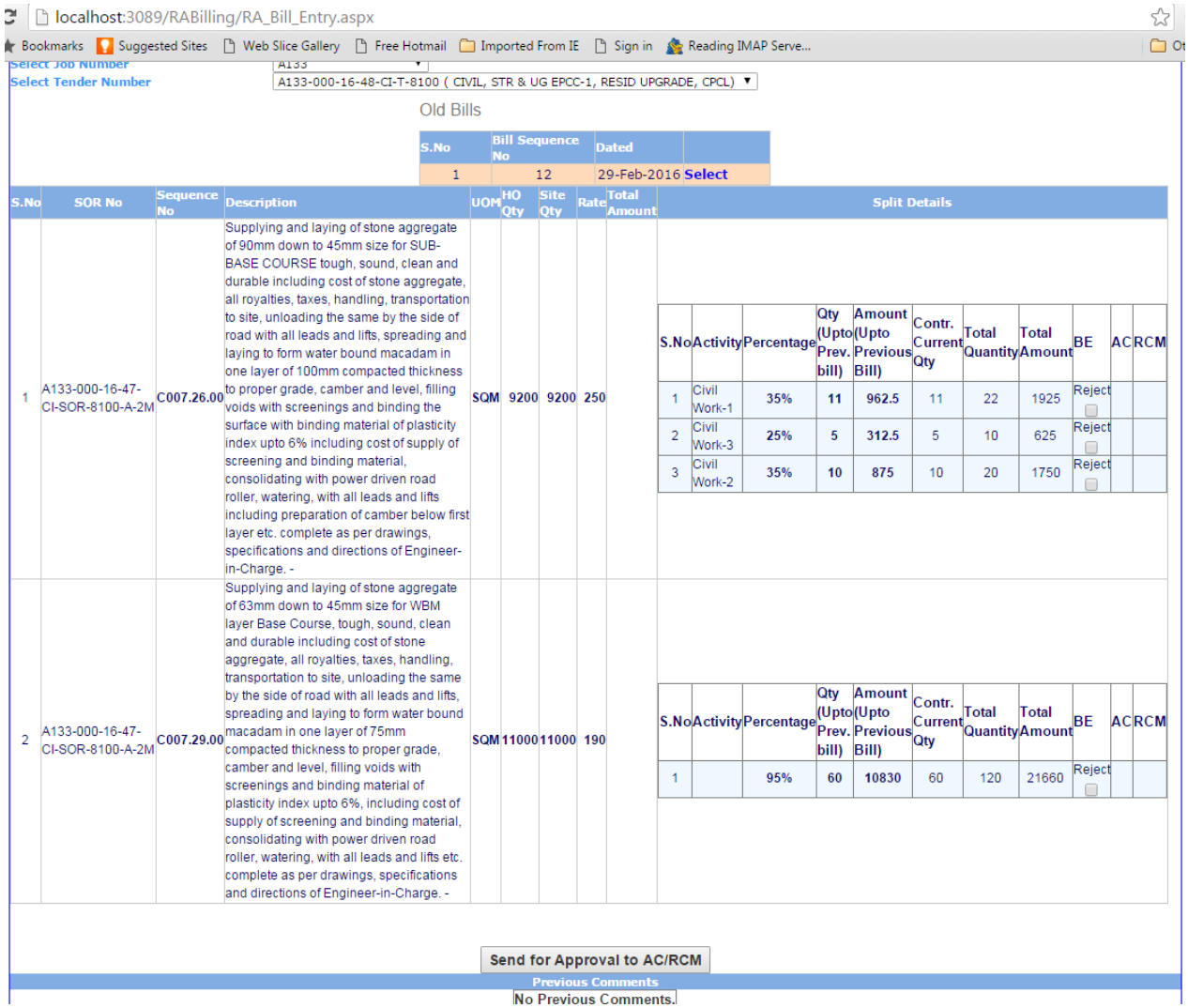

localhost:3089/RABilling/RA_Bill_Entry.aspx

Bookmarks | Suggested Sites | Web Slice Gallery | Free Hotmail | Imported From IE | Sign in | Reading IMAP Serve...

Select Job Number: A133

Select Tender Number: A133-000-16-48-CI-T-8100 (CIVIL, STR & UG EPCC-1, RESID UPGRADE, CPCL)

Old Bills

S.No	Bill Sequence No	Dated	
1	12	29-Feb-2016	Select

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount	Split Details
1	A133-000-16-47-CI-SOR-8100-A-2M	C007.26.00	Supplying and laying of stone aggregate of 90mm down to 45mm size for SUB-BASE COURSE tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 100mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6% including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below first layer etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	9200	9200	250		
2	A133-000-16-47-CI-SOR-8100-A-2M	C007.29.00	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	11000	11000	190		

Split Details for S.No 1:

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1	Civil Work-1	35%	11	962.5	11	22	1925	Reject		
2	Civil Work-3	25%	5	312.5	5	10	625	Reject		
3	Civil Work-2	35%	10	875	10	20	1750	Reject		

Split Details for S.No 2:

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1		95%	60	10830	60	120	21660	Reject		

Send for Approval to AC/RCM

Previous Comments

No Previous Comments.

Billing Engineer may Either Reject or Approve all quantities. After approval following screen will appear:

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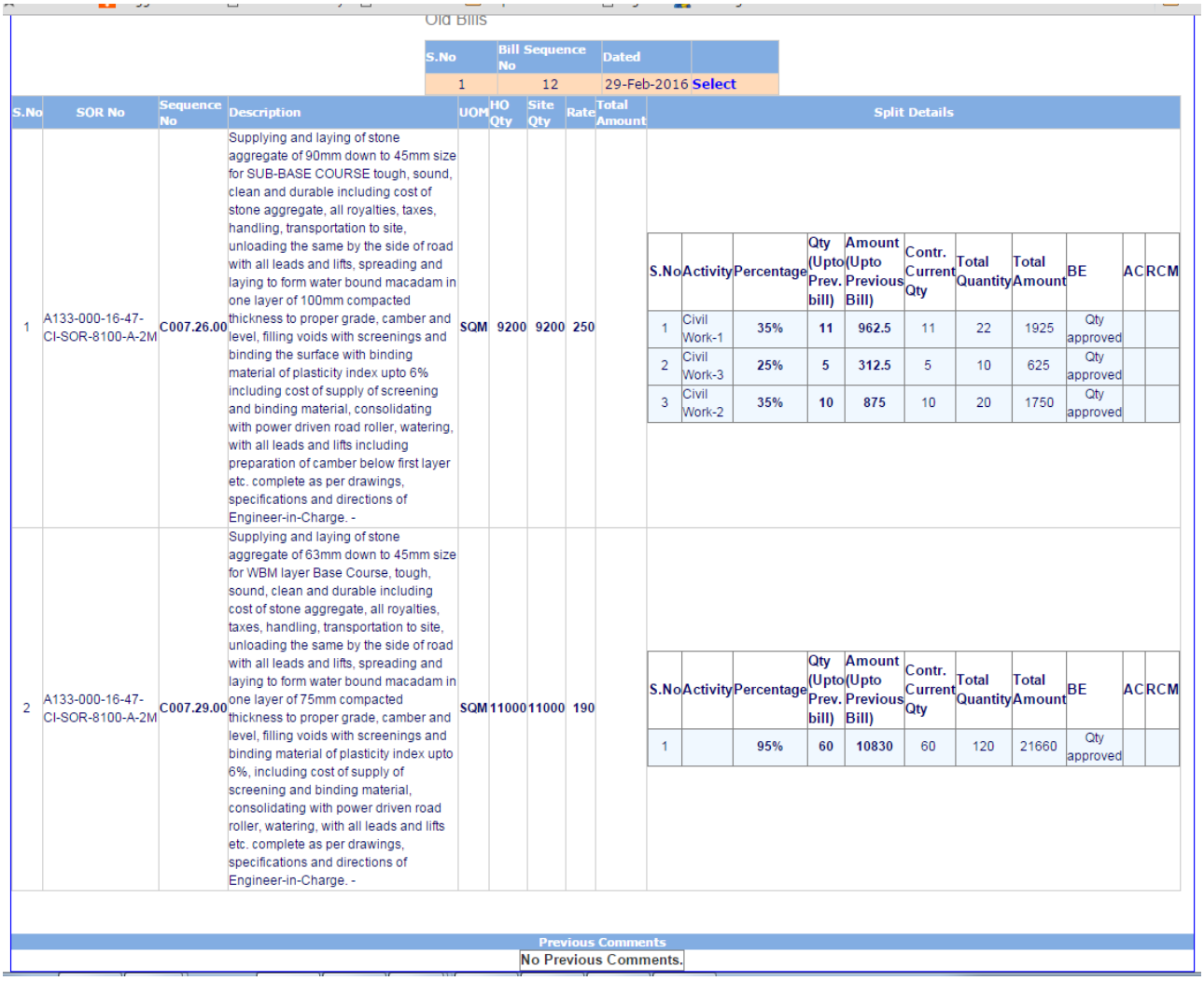

Old Bills

S.No	Bill Sequence No	Dated	
1	12	29-Feb-2016	Select

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount	Split Details
1	A133-000-16-47-CI-SOR-8100-A-2M	C007.26.00	Supplying and laying of stone aggregate of 90mm down to 45mm size for SUB-BASE COURSE tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 100mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding the surface with binding material of plasticity index upto 6% including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below first layer etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	9200	9200	250	

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1	Civil Work-1	35%	11	962.5	11	22	1925	Qty approved		
2	Civil Work-3	25%	5	312.5	5	10	625	Qty approved		
3	Civil Work-2	35%	10	875	10	20	1750	Qty approved		

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount	Split Details
2	A133-000-16-47-CI-SOR-8100-A-2M	C007.29.00	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	11000	11000	190	

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1		95%	60	10830	60	120	21660	Qty approved		

Previous Comments

No Previous Comments.

Area Coordinator approval screen:

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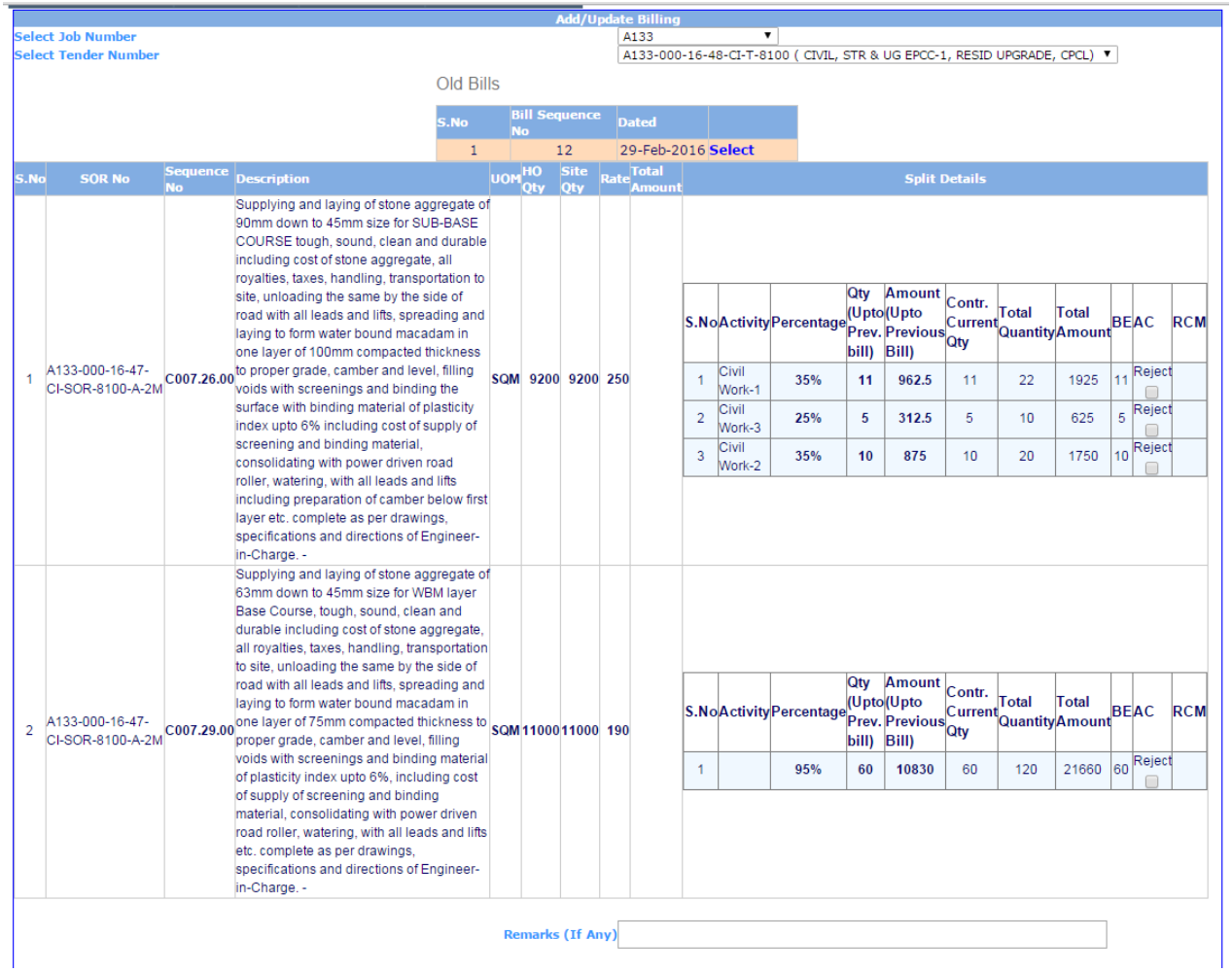

Add/Update Billing

Select Job Number: A133

Select Tender Number: A133-000-16-48-CI-T-8100 (CIVIL, STR & UG EPCC-1, RESID UPGRADE, CPCL)

Old Bills

S.No	Bill Sequence No	Dated	
1	12	29-Feb-2016	Select

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount
1	A133-000-16-47-CI-SOR-8100-A-2M	C007.26.00	Supplying and laying of stone aggregate of 90mm down to 45mm size for SUB-BASE COURSE tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 100mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding the surface with binding material of plasticity index upto 6% including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below first layer etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	9200	9200	250	

Split Details

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1	Civil Work-1	35%	11	962.5	11	22	1925	11	Reject	
2	Civil Work-3	25%	5	312.5	5	10	625	5	Reject	
3	Civil Work-2	35%	10	875	10	20	1750	10	Reject	

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount
2	A133-000-16-47-CI-SOR-8100-A-2M	C007.29.00	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	11000	11000	190	

Split Details

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1		95%	60	10830	60	120	21660	60	Reject	

Remarks (If Any)

After approval by AC, following screen will appear:

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Add/Update Billing

Select Job Number: A133

Select Tender Number: A133-000-16-48-CI-T-8100 (CIVIL, STR & UG EPCC-1, RESID UPGRADE, CPCL)

Old Bills

S.No	Bill Sequence No	Dated	
1	12	29-Feb-2016	Select

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount
1	A133-000-16-47-CI-SOR-8100-A-2M	C007.26.00	Supplying and laying of stone aggregate of 90mm down to 45mm size for SUB-BASE COURSE tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 100mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding the surface with binding material of plasticity index upto 6% including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below first layer etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	9200	9200	250	
2	A133-000-16-47-CI-SOR-8100-A-2M	C007.29.00	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	11000	11000	190	

Split Details

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1	Civil Work-1	35%	11	962.5	11	22	1925	11	11	
2	Civil Work-3	25%	5	312.5	5	10	625	5	5	
3	Civil Work-2	35%	10	875	10	20	1750	10	10	

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1		95%	60	10830	60	120	21660	60	60	

Remarks (If Any)

Previous Comments

No Previous Comments

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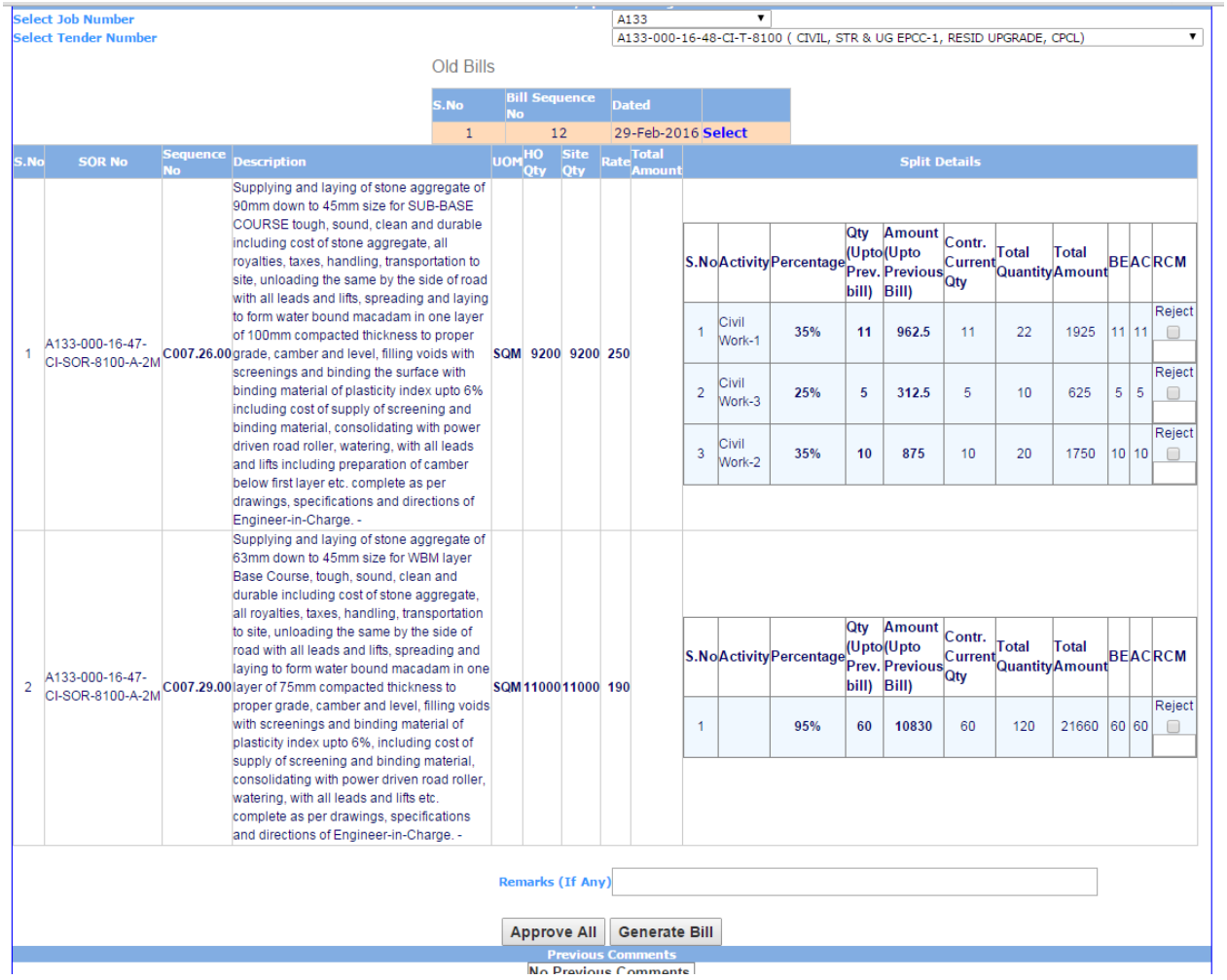
RCM Screen for final approving of bill:



Select Job Number: A133

Select Tender Number: A133-000-16-48-CI-T-8100 (CIVIL, STR & UG EPCC-1, RESID UPGRADE, CPCL)

Old Bills

S.No	Bill Sequence No	Dated	
1	12	29-Feb-2016	Select

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount
1	A133-000-16-47-CI-SOR-8100-A-2M	C007.26.00	Supplying and laying of stone aggregate of 90mm down to 45mm size for SUB-BASE COURSE tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 100mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding the surface with binding material of plasticity index upto 6% including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below first layer etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	9200	9200	250	
2	A133-000-16-47-CI-SOR-8100-A-2M	C007.29.00	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	11000	11000	190	

Split Details

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1	Civil Work-1	35%	11	962.5	11	22	1925	11	11	Reject
2	Civil Work-3	25%	5	312.5	5	10	625	5	5	Reject
3	Civil Work-2	35%	10	875	10	20	1750	10	10	Reject

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1		95%	60	10830	60	120	21660	60	60	Reject

Remarks (If Any)

Approve All | Generate Bill

Previous Comments

No Previous Comments

RCM has facility to overwrite the previous quantities entered by others and may approve and generate the bill:

After approving, following screen will come:

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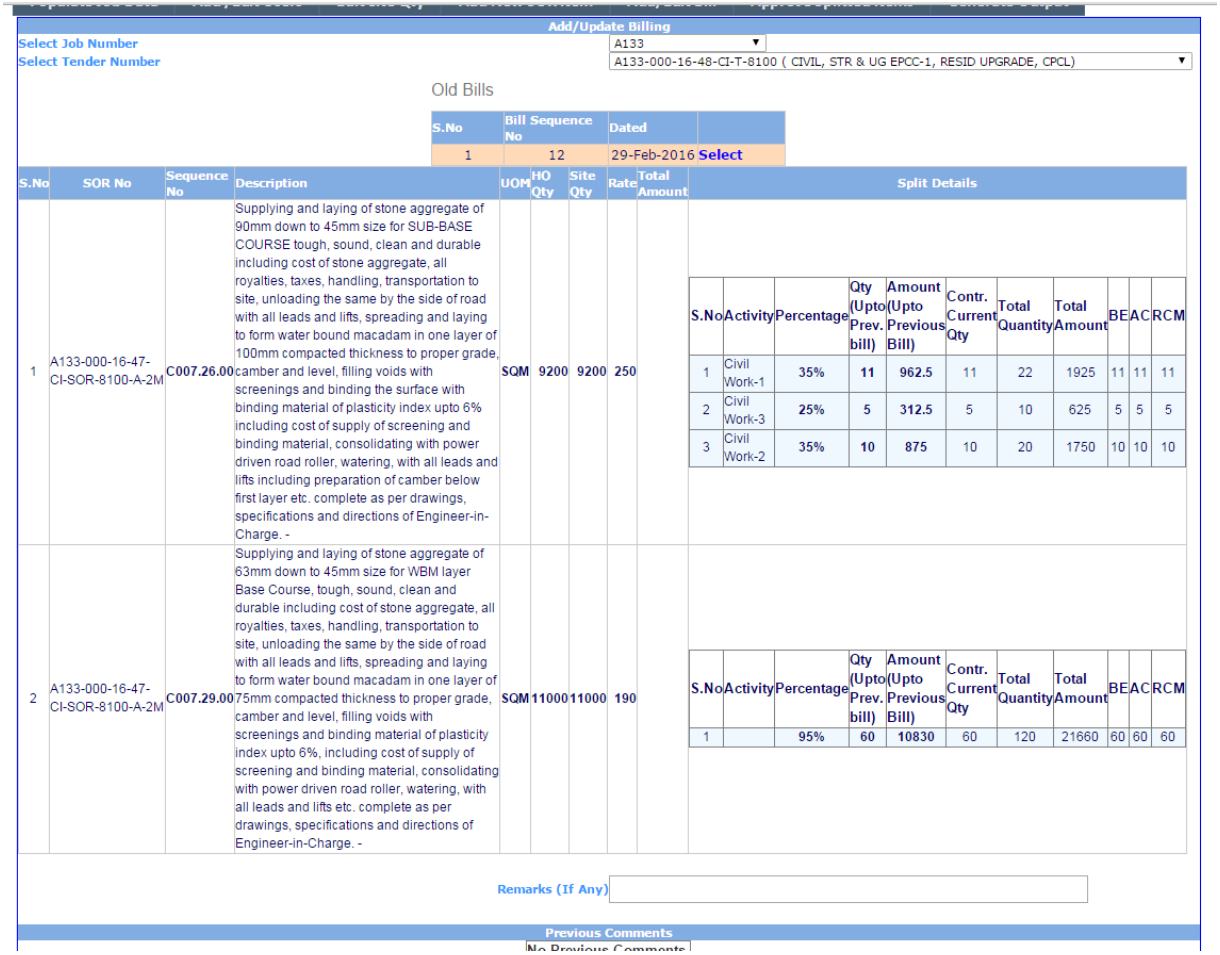


Add/Update Billing

Select Job Number: A133

Select Tender Number: A133-000-16-48-CI-T-8100 (CIVIL, STR & UG EPCC-1, RESID UPGRADE, CPCL)

Old Bills

S.No	Bill Sequence No	Dated	
1	12	29-Feb-2016	Select

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount
1	A133-000-16-47-CI-SOR-8100-A-2M	C007.26.00	Supplying and laying of stone aggregate of 90mm down to 45mm size for SUB-BASE COURSE tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 100mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding the surface with binding material of plasticity index upto 6% including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below first layer etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	9200	9200	250	

Split Details

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1	Civil Work-1	35%	11	962.5	11	22	1925	11	11	11
2	Civil Work-3	25%	5	312.5	5	10	625	5	5	5
3	Civil Work-2	35%	10	875	10	20	1750	10	10	10

S.No	SOR No	Sequence No	Description	UOM	HO Qty	Site Qty	Rate	Total Amount
2	A133-000-16-47-CI-SOR-8100-A-2M	C007.29.00	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge. -	SQM	11000	11000	190	

Split Details

S.No	Activity	Percentage	Qty (Upto Prev. bill)	Amount (Upto Previous Bill)	Contr. Current Qty	Total Quantity	Total Amount	BE	AC	RCM
1		95%	60	10830	60	120	21660	60	60	60

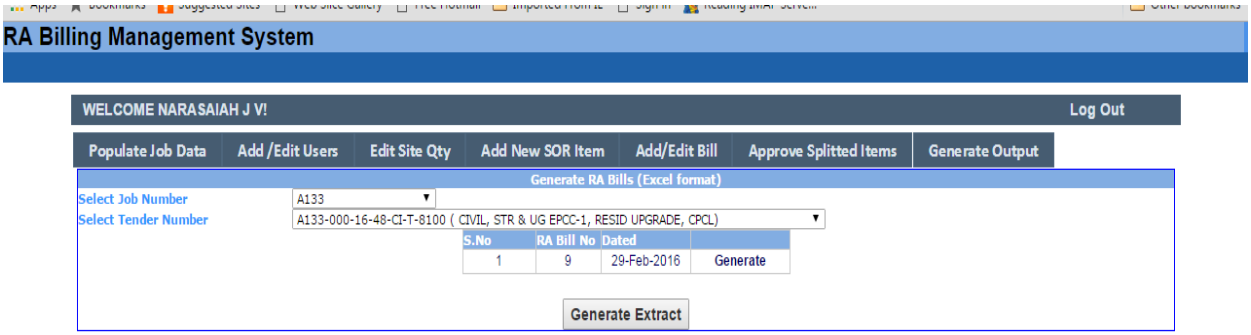
Remarks (If Any)

Previous Comments

No Previous Comments

Clicking on Generate RA Bill button:

Bill Number will be generated, and following screen will appear in “Generate Output” menu options



RA Billing Management System

WELCOME NARASAIAH J V! Log Out

Populate Job Data | Add /Edit Users | Edit Site Qty | Add New SOR Item | Add/Edit Bill | Approve Splitted Items | Generate Output

Generate RA Bills (Excel format)

Select Job Number: A133

Select Tender Number: A133-000-16-48-CI-T-8100 (CIVIL, STR & UG EPCC-1, RESID UPGRADE, CPCL)

S.No	RA Bill No	Dated	
1	9	29-Feb-2016	Generate

Generate Extract

Bill Formats in Excel:

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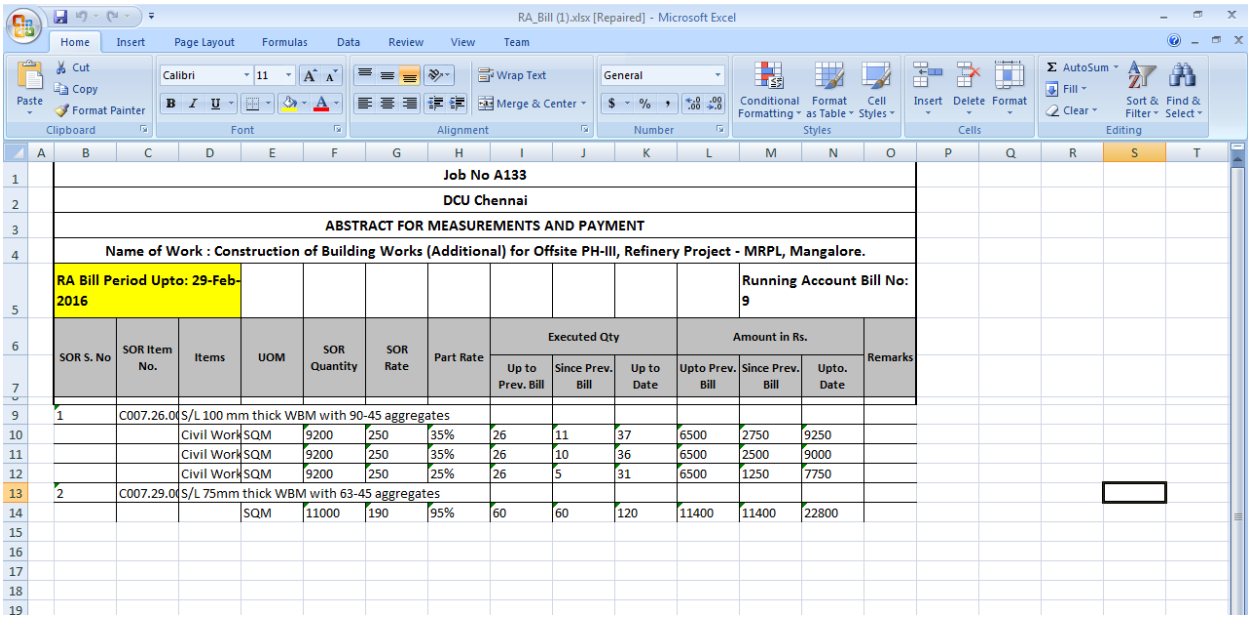
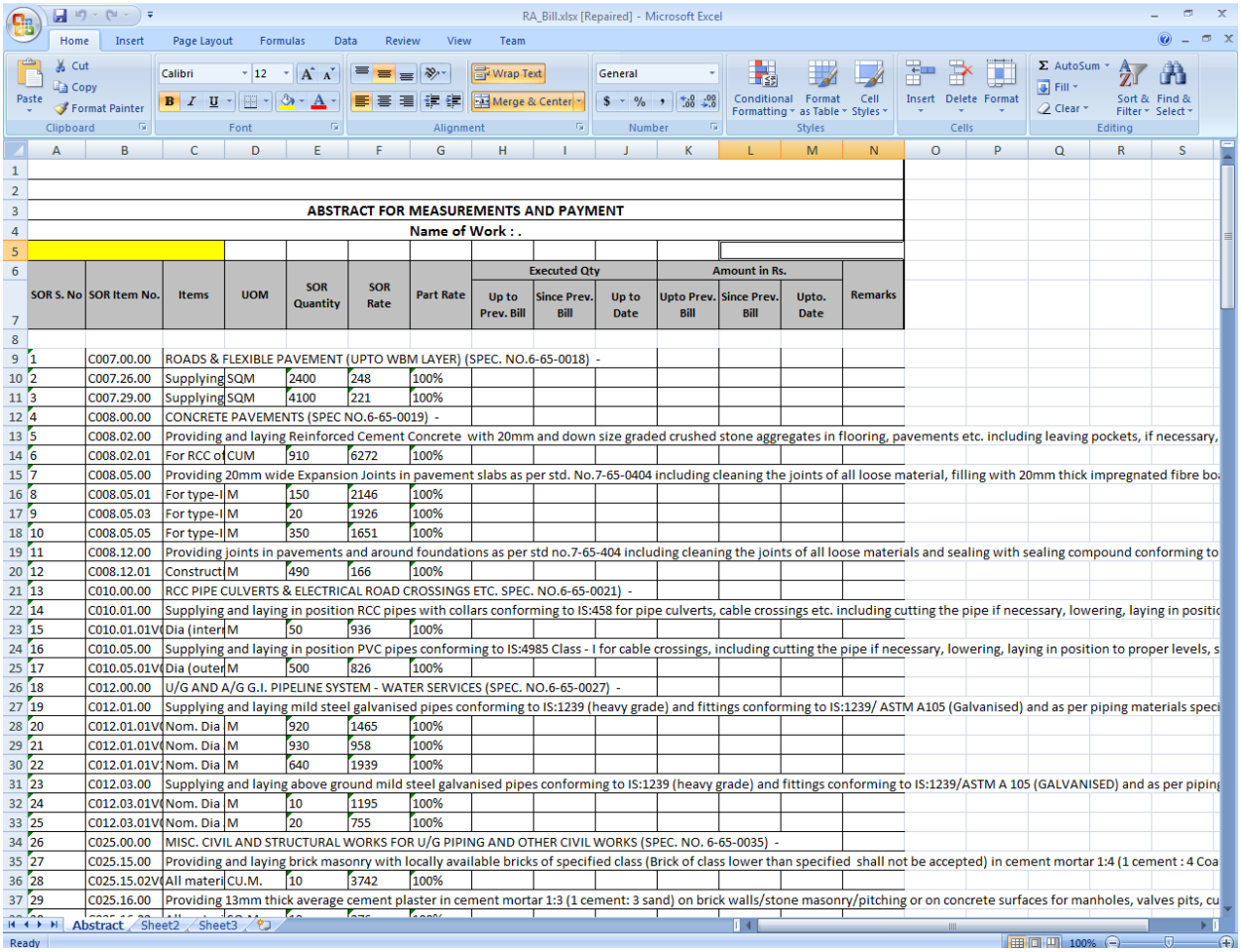


RA_Bill (1).xlsx [Repaired] - Microsoft Excel

1	Job No A133																			
2	DCU Chennai																			
3	ABSTRACT FOR MEASUREMENTS AND PAYMENT																			
4	Name of Work : Construction of Building Works (Additional) for Offsite PH-III, Refinery Project - MRPL, Mangalore.																			
5	RA Bill Period Upto: 29-Feb-2016											Running Account Bill No: 9								
6	SOR S. No	SOR Item No.	Items	UOM	SOR Quantity	SOR Rate	Part Rate	Executed Qty			Amount in Rs.			Remarks						
7								Up to Prev. Bill	Since Prev. Bill	Up to Date	Upto Prev. Bill	Since Prev. Bill	Upto. Date							
9	1	C007.26.0(	S/L 100 mm thick WBM with 90-45 aggregates																	
10			Civil Work	SQM	9200	250	35%	26	11	37	6500	2750	9250							
11			Civil Work	SQM	9200	250	35%	26	10	36	6500	2500	9000							
12			Civil Work	SQM	9200	250	25%	26	5	31	6500	1250	7750							
13	2	C007.29.0(	S/L 75mm thick WBM with 63-45 aggregates																	
14				SQM	11000	190	95%	60	60	120	11400	11400	22800							

Abstract:



RA_Bill.xlsx [Repaired] - Microsoft Excel

3	ABSTRACT FOR MEASUREMENTS AND PAYMENT																			
4	Name of Work : .																			
6	SOR S. No	SOR Item No.	Items	UOM	SOR Quantity	SOR Rate	Part Rate	Executed Qty			Amount in Rs.			Remarks						
7								Up to Prev. Bill	Since Prev. Bill	Up to Date	Upto Prev. Bill	Since Prev. Bill	Upto. Date							
9	1	C007.00.00	ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER) (SPEC. NO.6-65-0018) -																	
10	2	C007.26.00	Supplying	SQM	2400	248	100%													
11	3	C007.29.00	Supplying	SQM	4100	221	100%													
12	4	C008.00.00	CONCRETE PAVEMENTS (SPEC NO.6-65-0019) -																	
13	5	C008.02.00	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary,																	
14	6	C008.02.01	For RCC o	CUM	910	6272	100%													
15	7	C008.05.00	Providing 20mm wide Expansion Joints in pavement slabs as per std. No.7-65-0404 including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre bo																	
16	8	C008.05.01	For type-I	M	150	2146	100%													
17	9	C008.05.03	For type-I	M	20	1926	100%													
18	10	C008.05.05	For type-I	M	350	1651	100%													
19	11	C008.12.00	Providing joints in pavements and around foundations as per std no.7-65-404 including cleaning the joints of all loose materials and sealing with sealing compound conforming to																	
20	12	C008.12.01	Construct	M	490	166	100%													
21	13	C010.00.00	RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. SPEC. NO.6-65-0021) -																	
22	14	C010.01.00	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in positio																	
23	15	C010.01.01V(	Dia (inter	M	50	936	100%													
24	16	C010.05.00	Supplying and laying in position PVC pipes conforming to IS:4985 Class - I for cable crossings, including cutting the pipe if necessary, lowering, laying in position to proper levels, s																	
25	17	C010.05.01V(	Dia (outer	M	500	826	100%													
26	18	C012.00.00	U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES (SPEC. NO.6-65-0027) -																	
27	19	C012.01.00	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanised) and as per piping materials speci																	
28	20	C012.01.01V(	Nom. Dia	M	920	1465	100%													
29	21	C012.01.01V(	Nom. Dia	M	930	958	100%													
30	22	C012.01.01V1	Nom. Dia	M	640	1939	100%													
31	23	C012.03.00	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping																	
32	24	C012.03.01V(	Nom. Dia	M	10	1195	100%													
33	25	C012.03.01V(	Nom. Dia	M	20	755	100%													
34	26	C025.00.00	MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS (SPEC. NO. 6-65-0035) -																	
35	27	C025.15.00	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coa																	
36	28	C025.15.02V(	All materi	CU.M.	10	3742	100%													
37	29	C025.16.00	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, cu																	

Abstract | Sheet2 | Sheet3

Ready

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6. ERROR MESSAGES

Error messages will be displayed while input parameters are wrongly filled or some validation fails.

Login failed:

If Valid Employee number and Password in not mentioned, following screen will appear:

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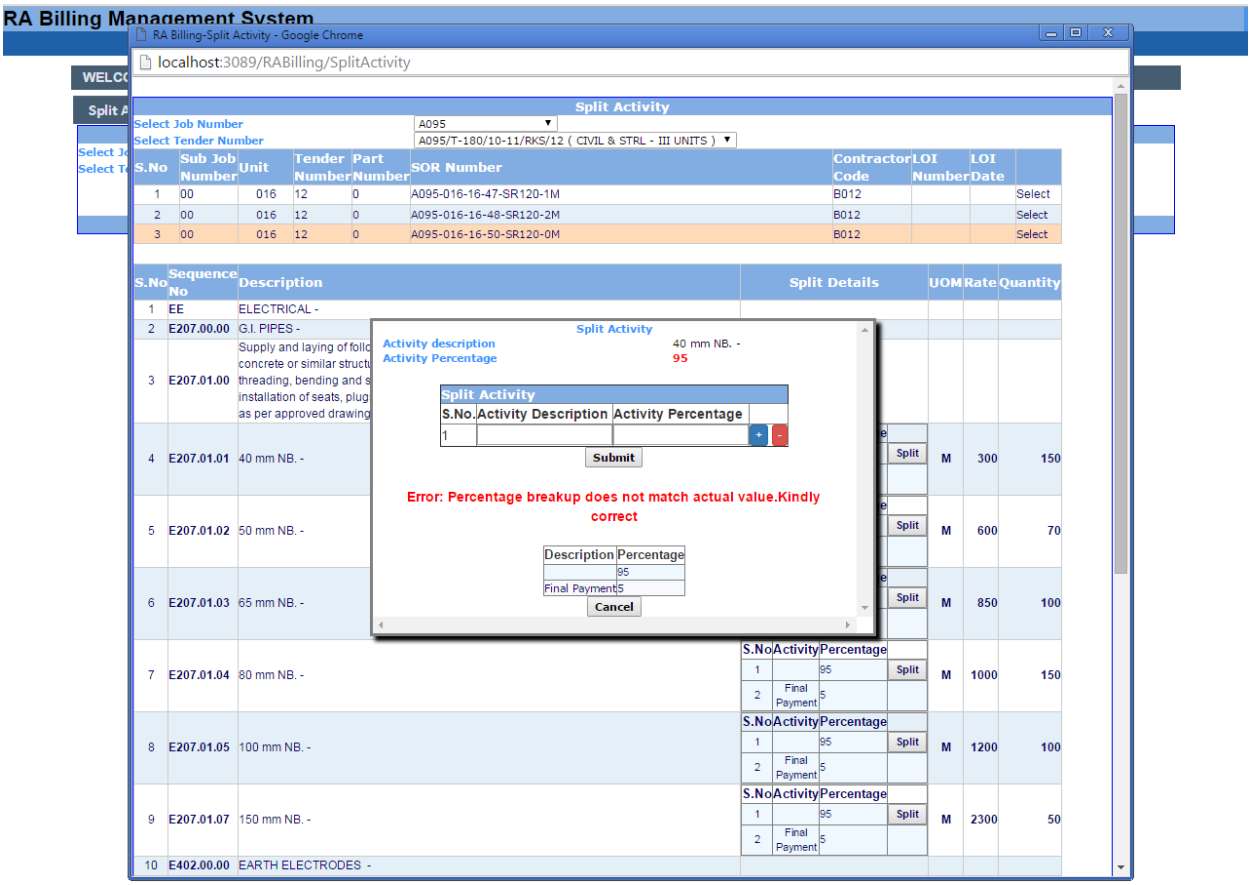
Invalid Split error message:



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