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ACCESS DATABASE OUTPUT

In each cut-off date, the following extraction are produced and shared to Construction Team for verification, information, acceptance of Construction Progress. The report will be classified as, by Unit, by SCMC (for COPR updating) and by Activities as per below tables.

Report No. 1

ProgressByUnit

Steel Structure

Printed: 6/12/2014 9:00:08 AM

StartDate:	25-Aug-2011
EndDate:	12-Jun-2014

Details	Unit	Required	PROM Done	Balance	%Ach	ThisWeek	REAL Done	Balance	%Ach	ThisWeek
KG		82,023,918	81,754,613	269,305	99.7	21,101	81,745,658	278,260	99.7	21,101
DESC02		10,489,897	10,489,897	0	100.0	0	10,489,897	0	100.0	0
	726	2,361,688	2,361,688	0	100.0	0	2,361,688	0	100.0	0
	727	2,358,731	2,358,731	0	100.0	0	2,358,731	0	100.0	0
	740	1,332,759	1,332,759	0	100.0	0	1,332,759	0	100.0	0
	742	4,436,719	4,436,719	0	100.0	0	4,436,719	0	100.0	0
DH		2,084	2,084	0	100.0	0	2,084	0	100.0	0
	790	2,084	2,084	0	100.0	0	2,084	0	100.0	0
DOD501		33,505,268	33,478,483	26,786	99.9	0	33,477,077	28,192	99.9	0
	720	772,394	772,394	0	100.0	0	772,394	0	100.0	0
	721	4,021,722	4,021,722	0	100.0	0	4,021,722	0	100.0	0
	722	4,009,116	4,005,765	3,351	99.9	0	4,005,594	3,523	99.9	0

Report No. 2


ProgressBySubCMC

Steel Structure

Printed: 6/12/2014 9:07:59 AM

StartDate:	25-Aug-2011
EndDate:	12-Jun-2014

Details	SubCMC	Required	PROM Done	Balance	%Ach	ThisWeek	REAL Done	Balance	%Ach	ThisWeek
733		3,930	2,740	1,190	69.7	90	2,742	1,189	69.8	90
733-STR-B		2,288	1,554	734	67.9	90	1,555	733	68.0	90
	MC2440	1,350	1,348	1	99.9	90	1,350	0	100.0	90
	MC2446	938	205	733	21.9	0	205	733	21.9	0
733-STR-C		1,642	1,186	456	72.2	0	1,186	456	72.2	0
	MC2440	1,067	611	456	57.3	0	611	456	57.3	0
	MC2446	576	576	0	100.0	0	576	0	100.0	0
734		3,930	2,124	1,806	54.0	0	2,124	1,806	54.0	0
734-STR-B		2,288	1,266	1,022	55.3	0	1,266	1,022	55.3	0
	MC2440	1,350	1,060	289	78.6	0	1,060	289	78.6	0
	MC2446	938	205	733	21.9	0	205	733	21.9	0
734-STR-C		1,642	858	784	52.3	0	858	784	52.3	0
	MC2440	1,067	639	428	59.9	0	639	428	59.9	0

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Report No. 3

ProgressByActivity

Steel Structure

Printed: 12/19/2013 2:38:07 PM

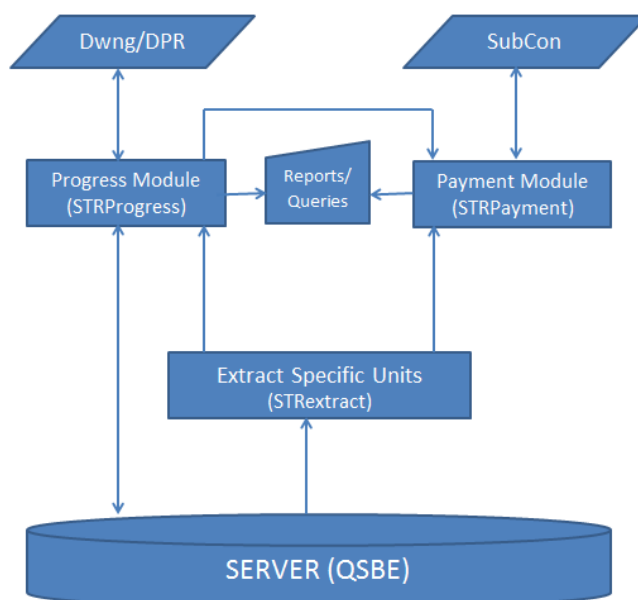
StartDate: 25-Aug-2011
EndDate: 19-Dec-2013

Unit	Lot	SubCMC	Activity	Required	PROM Done	%Ach
KG				81,919,783	80,067,925	97.7
DESC02				10,484,396	10,427,564	99.5
726				2,360,671	2,359,905	100.0
	726-PR-01-A			275,092	275,092	100.0
		MC2410		216,545	216,546	100.0
			1 Transport from WH to Site	10,827	10,827	100.0
			2 Erection in Position	119,100	119,100	100.0
			3 Welding, Bolting and Adjustment	75,791	75,791	100.0
			5 Quality Control Certificate	10,827	10,827	100.0
		MC2420		21,946	21,946	100.0
			1 Transport from WH to Site	1,097	1,097	100.0
			2 Erection in Position	12,070	12,070	100.0
			3 Welding, Bolting and Adjustment	7,681	7,681	100.0
			5 Quality Control Certificate	1,097	1,097	100.0
		MC2426		36,600	36,600	100.0
			1 Transport from WH to Site	1,830	1,830	100.0
			2 Erection in Position	20,130	20,130	100.0
			3 Welding, Bolting and Adjustment	12,810	12,810	100.0
			5 Quality Control Certificate	1,830	1,830	100.0

In each calendar month, the Database will produce automatically the below report that are at bill item level, referring to each Structure which will be used as a basis of checking Sub-contractor claims in each Progress Milestone accomplished.


COLAV Bookkeeping used for Payment

Structure	Lot	BillItemCode	BillItemCode Description	Um	QTY
721-PR-01	721-PR-01A	MC 20 01	Light Structure	KG	19,152
		MC 20 02	Medium Structure	KG	1,130
		MC 20 03	Heavy Structure	KG	432
		MC 20 04	Extra Heavy Structure	KG	189
		MC 20 05	Gratings	KG	1
721-PR-01	721-PR-01B	MC 20 01	Light Structure	KG	410
		MC 20 02	Medium Structure	KG	33
		MC 20 05	Gratings	KG	1

DATABASE WORKFLOW

Facts & Figures:

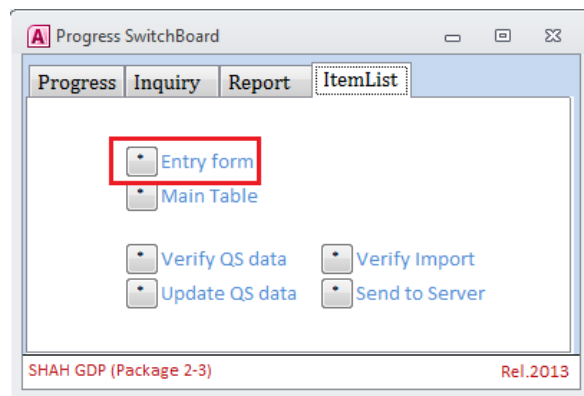
- A. Downloading BOM from server will take about three minutes (485,000 records)
 Mass import of BOM will take less than one minute (10,000 records)
 Mass update of QS data from excel will take about two minutes (10,000 records)
- B. Extracting Activity Checklist for all units takes roughly twenty minutes (485,000 records)
 Filtering overall progress takes about five minutes (1,940,000 records)
 Mass import of progress 180 records takes three minutes
- C. Import billing of 9,000 records takes a couple of seconds
- D. Extract COLAV report of 200 records take less than a minute (Summary of 9,000 records)
 Extract COPR reports takes three minutes (cumulative)
- E. Others

Details	Number
SubContractors	2
Contracts	3
Suppliers	10
Units	19
Structures	366
Modules	444
Unique Mark Codes (Active)	407,721
Mark Codes in Pieces (Active)	944,575
Rows in Progress Table	2,070,606

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The Flow

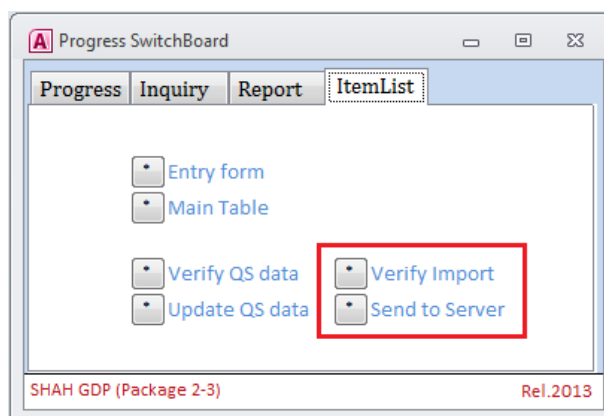
- A. Bill of Materials (BoM) Loading
1. At StrProgress, ItemList Tab, Manual entry is available in the boxed button




2. Or using mass entry through Import.xls,
 - a. plot in excel file provided

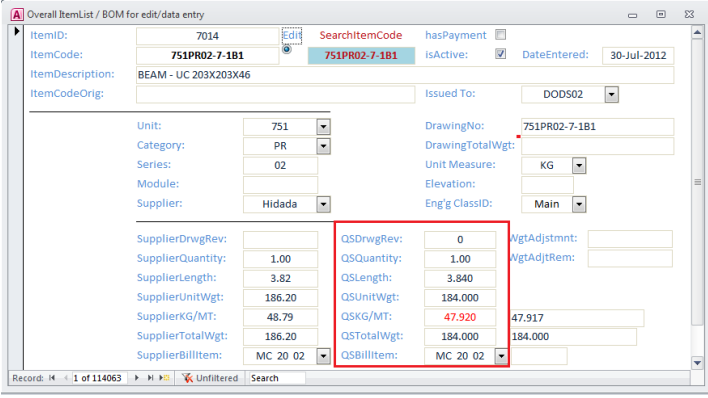
	A	B	C	D	E	F	G	H	I
1	ItemID	ItemCode	ItemDesc	UnitID	Catego	Series	Modu	Suppl	L
2	1	Default	Please don't delete	1	1	sai	1	1	
3	433954	733STRB-F1b-1/2	TEECUTFROM-UB457*191*82	8	3	B		9	
4	433955	733STRB-F1b-2/2	TEECUTFROM-UB457*191*82	8	3	B		9	
5	433956	734STRB-F1b-1/2	TEECUTFROM-UB457*191*82	9	3	B		9	
6	433957	734STRB-F1b-2/2	TEECUTFROM-UB457*191*82	9	3	B		9	
7	433958	732STRB-F1a-1/3	TEECUTFROM-UB457*191*82	7	3	B		9	
8	433959	733STRB-F1a-3/3	TEECUTFROM-UB457*191*82	8	3	B		9	
9	433960	733STRC-F1-1/5	TEECUTFROM-UB457*191*82	8	3	C		9	

- b. then use the boxed buttons to import



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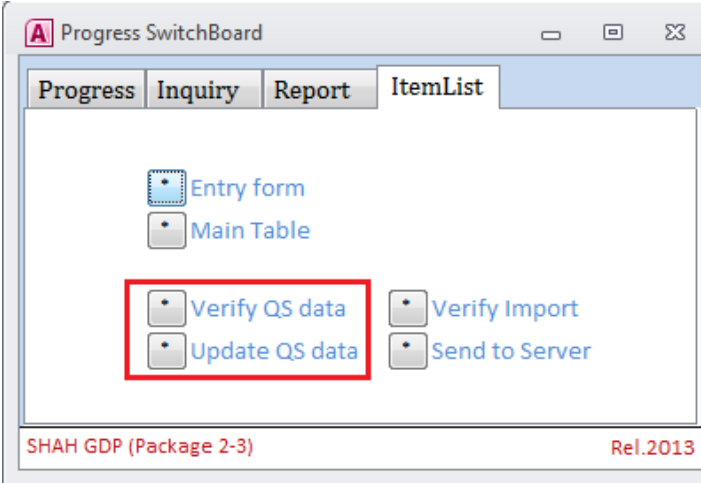
3. In a case that QS quantity needs a mass update (boxed),




a. plot in excel file provided

	A	B	C	D	E	F	G	H	I	J
1	ItemCode	ItemID	QSQty	QSLength	QSUnitWgt	QSTotalWgt	QSKGperMT	QSBillItemID	Remarks	Revision
2	75101BF3-1	267904	1	3.535	268.90	268.90	76.07	5		
3	75101CA101-7	294238	1	0.603	16.47	16.47	27.31	3		
4	75101CD11-7	294291	5	0.743	15.01	75.05	20.20	3		
5	75101CD12-7	294292	1	0.743	15.01	15.01	20.20	3		
6	75101CD13-7	294293	1	0.743	15.01	15.01	20.20	3		
7	75101CD14-7	294294	1	0.743	15.01	15.01	20.20	3		

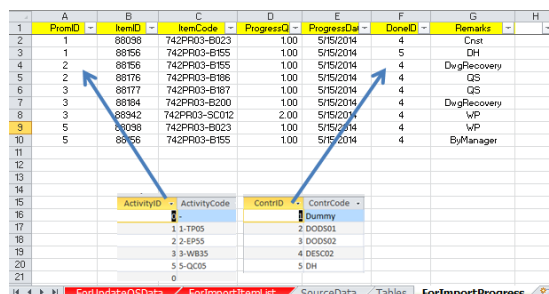
b. then use the boxed buttons to import



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B-1. Progress Loading

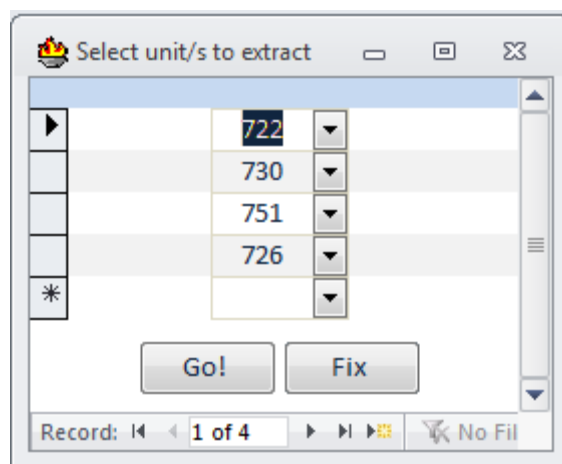
1. Plot in the provided excel the Items needed to load (data is available in the extracted Checklist)



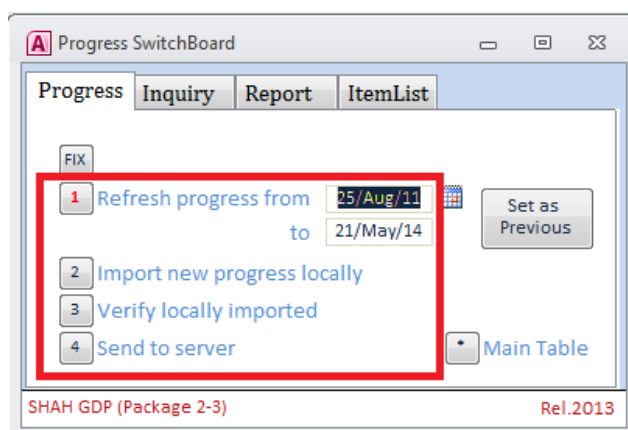
PromID	ItemID	ItemCode	ProgressID	ProgressDate	DoneID	Remarks
1	88098	742PR03-B023	1.00	5/15/2014	4	Cnst
2	88156	742PR03-B155	1.00	5/15/2014	5	DH
3	88156	742PR03-B155	1.00	5/15/2014	4	DvgRecovery
4	88176	742PR03-B186	1.00	5/15/2014	4	QS
5	88177	742PR03-B187	1.00	5/15/2014	4	QS
6	88184	742PR03-B200	1.00	5/15/2014	4	DvgRecovery
7	88342	742PR03-SC012	2.00	5/15/2014	4	v/P
8	88098	742PR03-B023	1.00	5/15/2014	4	v/P
9	88156	742PR03-B155	1.00	5/15/2014	4	ByManager


ActivityID	ActivityCode	ContrID	ContrCode
1	1-TP05	2	Dummy
2	2-EP55	3	D00502
3	3-WB35	4	DISC02
4	5-OC05	5	DH

2. Run StrExtract file to filter specific units you are about to load (Fix Button solves common errors that may arise)



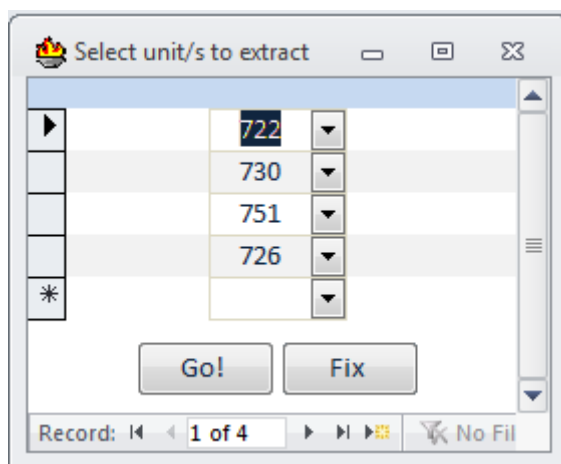
3. Run StrProgress (involves 4 steps to undergo)



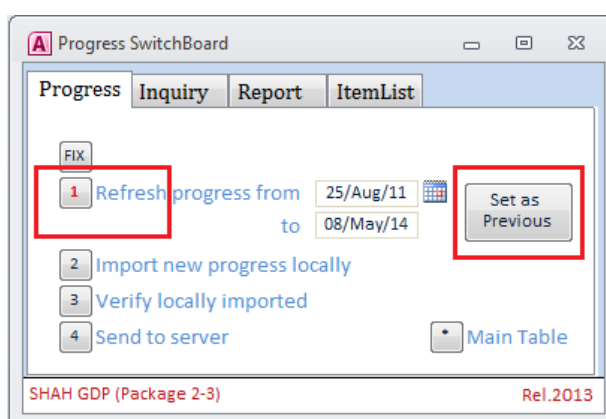
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B-2. Progress Queries/Reports

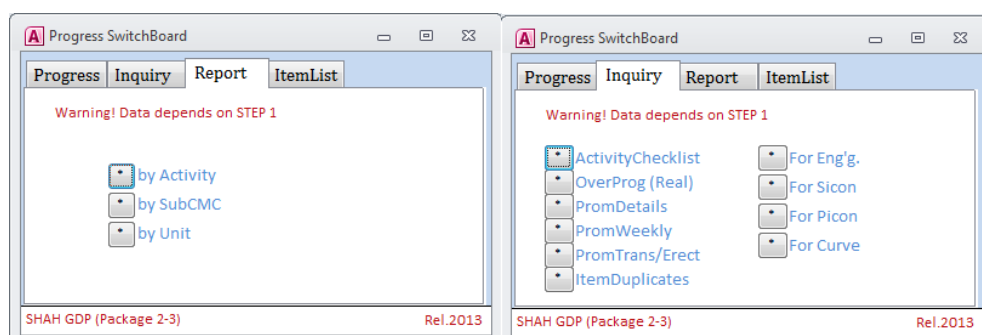
1. Run StrExtract file to filter specific units you are about to process (Fix Button solves common errors that may arise)




2. Run StrProgress,
 - a. need to Set Previous data by selecting inclusive dates
 - b. refresh according to the chosen current dates




3. Below buttons are updated as per refreshed inclusive dates



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C. Accounting Works

This window comes from Reporting Module or Payment.


Payment

PaymentID

27

1

WP

9

PaymentDate

28-Jun-12

PaymentTo

DODS02

PaymentRem

WP9DODEPC3

2

VerifyImport

3

ImportBilling

EditDetails

ExcelExport

PrintPreview

PaymentDtls

Colav

4

QuickSummary

SummaryByID

PaymentID	ActID	ActivityDesc	ItemID	ItemCode	PaidQty	PaidWgt	PaidBillItemCode	PaymentSu
27	3	25% Welding, Bolting	95092	75101BA10-7	1.00	15.49	MC 20 01	WP9EPC3DO
27	3	25% Welding, Bolting	95093	75101BA11-7	1.00	13.43	MC 20 01	WP9EPC3DO
27	3	25% Welding, Bolting	95097	75101BA15-7	1.00	15.18	MC 20 01	WP9EPC3DO

1 – Create first Payment ID


Billing are prepared by Sub-Contractor and will be sent to Saipem QS for verification.

Then, in Excel, plot the table as follows,

A	B	C	D	E	F	G	H	I	J	K	L	M	N
PaymentID	ActivityID	ItemID	ItemCode	ReqQTY	ClaimedQTY	ClaimedTotalWgt	Length	UnitWgt	KGperM	BillItem	DrawingNo	DrawingRev	Remarks
27	3	95092	75101BA10-7		1	15.49		61.96		MC 20 01	7850320-A10-7		WP9EPC3DOO
27	3	95093	75101BA11-7		1	13.43		53.7		MC 20 01	7850320-A11-7		WP9EPC3DOO
27	3	95097	75101BA15-7		1	15.18		60.7		MC 20 01	7850320-A15-7		WP9EPC3DOO
27	3	95098	75101BA16-7		1	14.99		59.96		MC 20 01	7850320-A16-7		WP9EPC3DOO
27	3	95099	75101BA17-7		1	12.25		48.98938455		MC 20 01	7850320-A17-7		WP9EPC3DOO
27	3	95100	75101BA18-7		1	14.98		59.92		MC 20 01	7850320-A18-7		WP9EPC3DOO
27	3	95104	75101BA21-7		1	5.16		20.65		MC 20 02	7850320-A21-7		WP9EPC3DOO
27	3	95105	75101BA22-7		1	5.23		20.91123124		MC 20 02	7850320-A22-7		WP9EPC3DOO
27	3	95106	75101BA23-7		1	5.24		20.95961488		MC 20 02	7850320-A23-7		WP9EPC3DOO
27	3	95107	75101BA24-7		1	12.24		48.96301235		MC 20 01	7850320-A24-7		WP9EPC3DOO
27	3	95108	75101BA25-7		8	172.20		86.10236097		MC 20 01	7850320-A25-7		WP9EPC3DOO

2 – double click Verify Import button to know items that are qualified for billing

ActivityDes	ItemCode	ItemID	Quantit	QtyDone	QtyTodo	QtyPaid	QtyToPay	WgtPaid	WgtToPay	BillItem	ActivityID	ReqWgtIncdncActg
Erection in Pc	75101AV100-1	21223	1	1	0	1	0	16.042	0	MC 20 01	2	16.042
Erection in Pc	75101AV90-1	21320	2	2	0	1	1	13.5525	13.553	MC 20 01	2	27.105
Erection in Pc	75101AV89-1	21318	1	1	0	1	0	16.744	0	MC 20 01	2	16.744
Erection in Pc	75101AV88-1	21317	1	1	0	1	0	14.43	0	MC 20 01	2	14.43
Erection in Pc	75101AV87-1	21316	1	1	0	1	0	14.17	0	MC 20 01	2	14.17
Erection in Pc	75101AV86-1	21315	1	1	0	1	0	11.856	0	MC 20 01	2	11.856
Erection in Pc	75101AV83-1	21312	1	1	0	1	0	32.3375	0	MC 20 01	2	32.3375
Erection in Pc	75101AV106-1	21229	2	2	0	1	1	15.86	15.86	MC 20 01	2	31.72
Erection in Pc	75101AA137-7	20771	1	1	0	1	0	25.0155	0	MC 20 01	2	25.0155

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- 3 – after finalizing the data you may now import by double clicking ImportBilling, It will prompts if done.

ReqUnitWgtIncdncActg	ClaimedQTY	ClaimedTotal	QtyRem	WgtRem	BillItemRem	WP
16.042	1	16.04	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
13.5525	1	13.55	Accepted	OK for Payment	BillItemCode are the same	9
16.744	1	16.74	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
14.43	1	14.43	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
14.17	1	14.17	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
11.856	1	11.86	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
32.3375	1	32.34	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
15.86	1	15.86	Accepted	OK for Payment	BillItemCode are the same	9
35.0155	1	35.02	ToAccept only 0	ToPay only 0	BillItemCode are the same	9
30.7125	2	61.43	ToAccept only 0	ToPay only 0	BillItemCode are the same	9


Generating Reports

COLAV

In Payment window, Colav button (No.4) displays and may extract basic data needed for Sicon.

Contract	Nr Meas	W P	Bill Item	1st Code	2nd Code	3rd Code	4th Code	5th Code	U M	Type of Work	Sub Type of work
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC
524718	9		MC 20 01	MC	20	01C			KG	0010	STRC

User Name	Meas Date	Item	Phase	Drawing	Drw Rev	Descr	Total Quanti	1st Length	2nd L	1st W	2nd Wic	1st He	2nd He	Sim Parts	Divisor
	28-Jun-12	753-PR01-E	MC-STR				9995.243	9995.243	0	1	0	1	0		1 1
	28-Jun-12	753-PR01-F	MC-STR				13051.593	1305.159	0	1	0	1	0		10 1
	28-Jun-12	753-STR-A	MC-STR				35595.549	3559.555	0	1	0	1	0		10 1
	28-Jun-12	753-STR-B	MC-STR				21079.347	2107.935	0	1	0	1	0		10 1
	28-Jun-12	753-STRC/L	MC-STR				5742.646	5742.646	0	1	0	1	0		1 1
	28-Jun-12	754-STR-A	MC-STR				177509.642	1775.096	0	1	0	1	0		100 1
	28-Jun-12	754-STR-B	MC-STR				74958.822	7495.882	0	1	0	1	0		10 1
	28-Jun-12	780-STR-A	MC-STR				239433.738	2394.337	0	1	0	1	0		100 1
	28-Jun-12	751-PR01-A	MC-STR				8338.651	8338.651	0	1	0	1	0		1 1

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COPR

In Progress window, scmc4sicon button displays and may extract basic data needed for Sicon.

SCMCforSICON				
unitcc	SubCMC	Structure	RequiredWgtIncd	DoneWgtIncd
720	MC2410	720-PR-01	533967	354969
720	MC2410	720-STR-A	5287	4555
720	MC2410	720-STR-B	5159	4186
720	MC2420	720-PR-01	74378	26497
720	MC2420	720-STR-A	2480	657
720	MC2420	720-STR-B	2598	821
720	MC2426	720-PR-01	29728	743
720	MC2426	720-STR-A	4167	0
720	MC2426	720-STR-B	4167	0