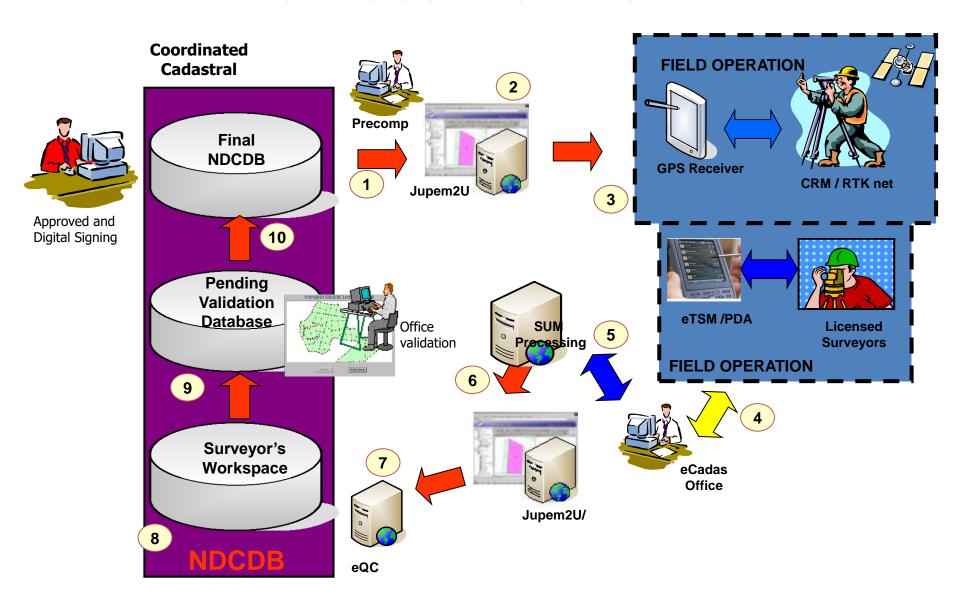
eTSM Title Survey Module



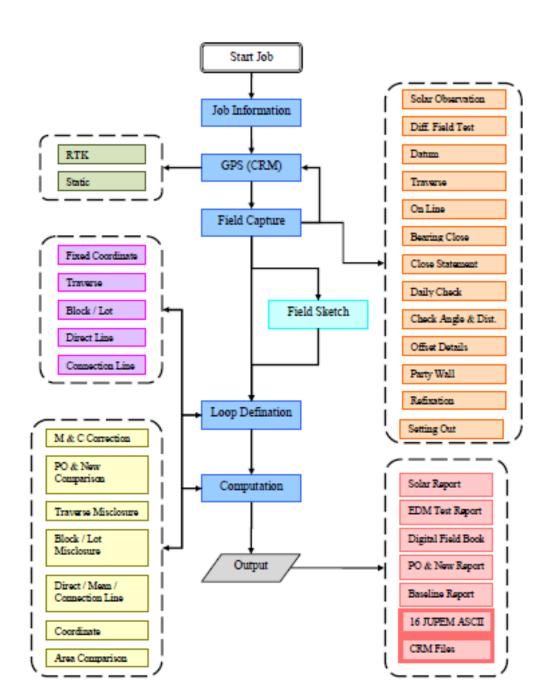
eCadas Workflow

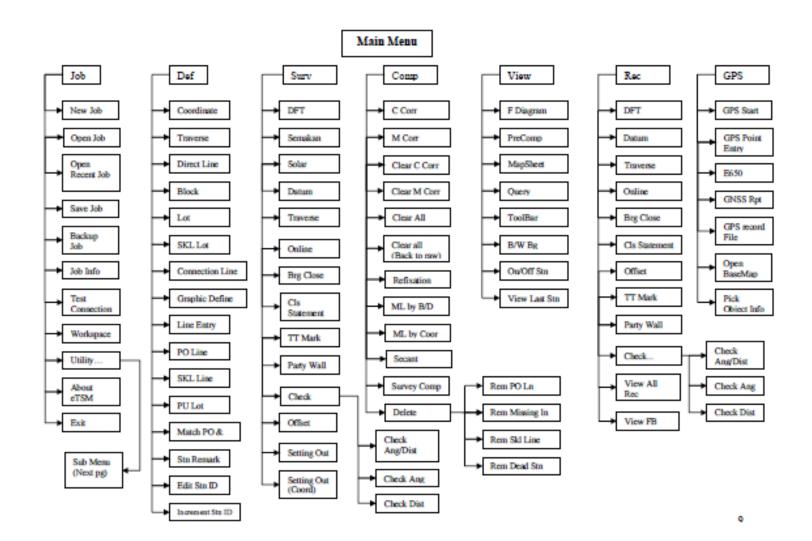


NOMAD DATA CONTROLLER

 Nomad data controller with eTSM (Title survey module) running on the Microsoft Windows Mobile 6 operating systems.

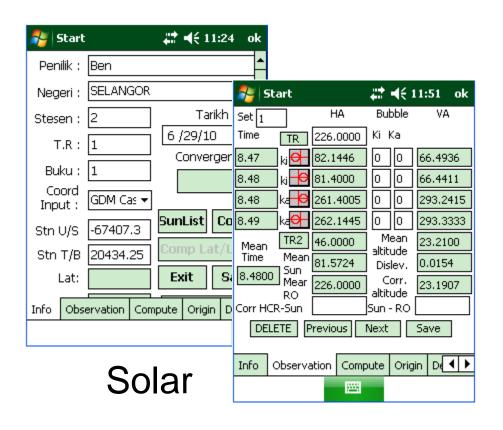


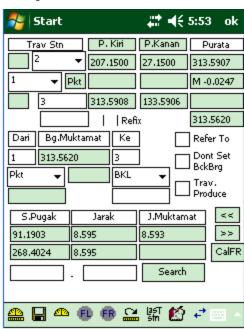




Familiar Data Collection form

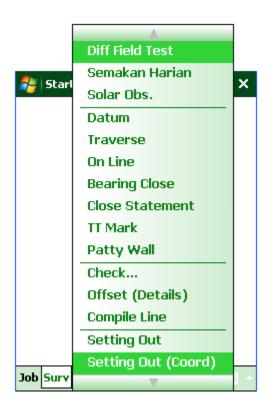
 Field book look alike form provide familiar working environment for surveyors.





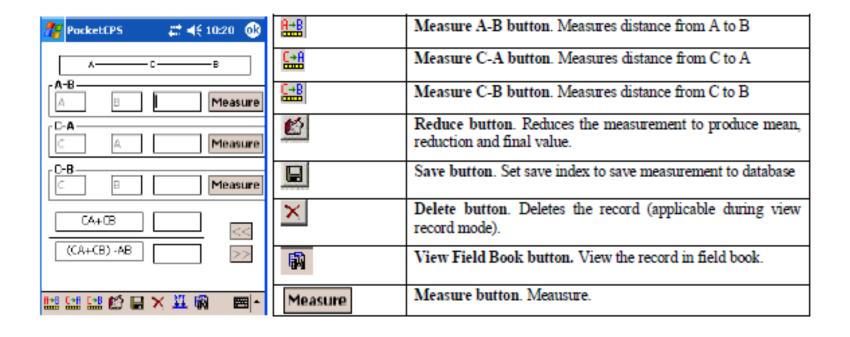
Traverse

Data collection functions

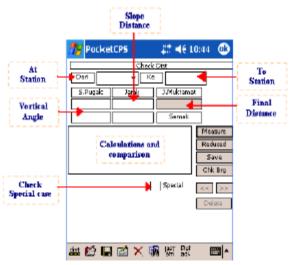


Diff Field Test	To perform Diffe	erential Field Test before starting job.
Semakan Harian	To perform ev starting job.	veryday Check Bearing and Distance before
Solar Obs.	To perform SOL	AR OBSERVATION measurement.
<u>Datum</u>	To perform DAT	TUM line measurement.
<u>Traverse</u>	To perform norm	nal TRAVERSE line measurement.
<u>Online</u>	To perform ONI	LINE measurement.
Bearing Close	To perform BEA	ARING CLOSE measurement.
Close Statement	To define CLOS	E STATEMENT.
TT Mark	To perform TT I	MARK measurement.
Patty Wall	To perform Patty	y Wall measurement.
Check	Check Angle Dist	To perform CHECK ANGLE & DISTANCE measurement together.
Check Angle & Dist Check Angle	Check Angle	To perform CHECK ANGLE measurement.
Check Distance	Check Distance	To perform CHECK DISTANCE measurement.
Offset (Details)	To perform OFF	SET measurement to pick up details.
Compile Line	To key in Comp	ile Line for Partly Survey and compile
Setting Out	Perform SETTING OUT to track and plant new mark.	
Setting Out (Coord)	Perform SETTI Coordinate meth	NG OUT to track and plant new mark with nod.

DIFFERENTIAL FIELD TEST

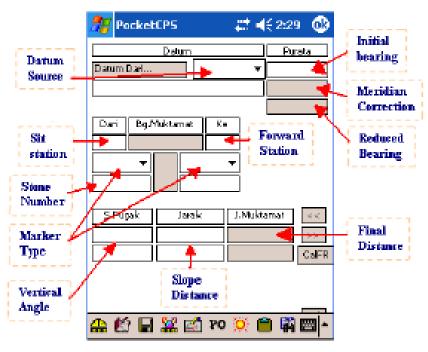


SEMAKAN HARIAN



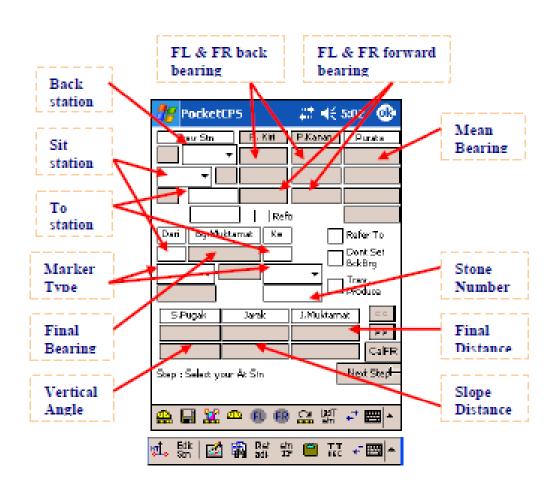
वांड	Measure button. Measures Face Left the first time and Face Right for the second time
	Reduce button. Reduces the measurement to produce mean, reduction and final value. Comparison between computed and true line distances will be shown.
	Save button. Set save index to save measurement to database.
2	View Sketch button. View the sketch of measurement.
×	Delete button. Deletes the record (applicable during view record mode).
₩	View Field Book button. View the record in field book.
[34T eth	View Last Station button. To check the used last station.

DATUM



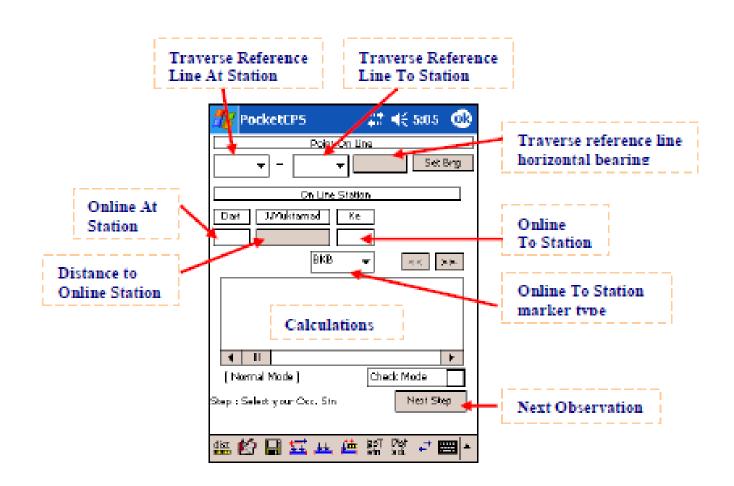
Measure button. Measures Face Left the first time and Face Right for the second time
Reduce button. Reduces the measurement to produce mean, reduction and final value.

TRAVERSE



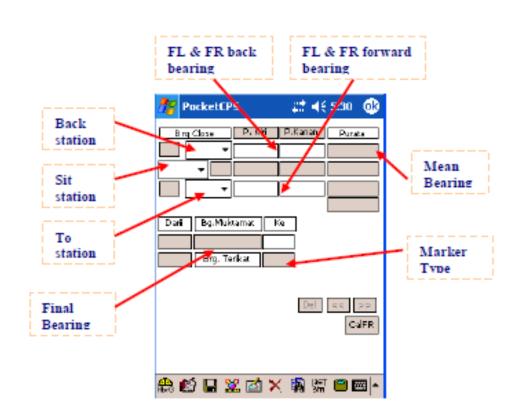
	Save button. Set save index to save measurement to database.
	Measure All button. Measures both face left and face right measurements transiting automatically. Applicapable to motorized instruments with auto targeting system only.
ØB:	Re-measure Horizontal bearing.
(1)	Re-measure Face Left (Horizontal Bearing, Vertical Angle, Slope Distance)
ER	Re-measure Face Right (Horizontal Bearing, Vertical Angle, and Slope Distance).
<u></u>	Re-measure Trav Dist. Re-measure Distance.
jast Stri	View last use station.
+	Switch menu bar
HT.	Enter height button. Enter height details.
Edit Stn	Edit Station ID button. Update/Edit station IDs.
	Sketch button. To view sketch.
	View Field Book button. View the record in field book.
Dist adi	Distance adjustment. To adjust the horizontal distance
蜡	Station remark. Add remark to a specific station ID (E.g.: TP ke, TLH)

ONLINE



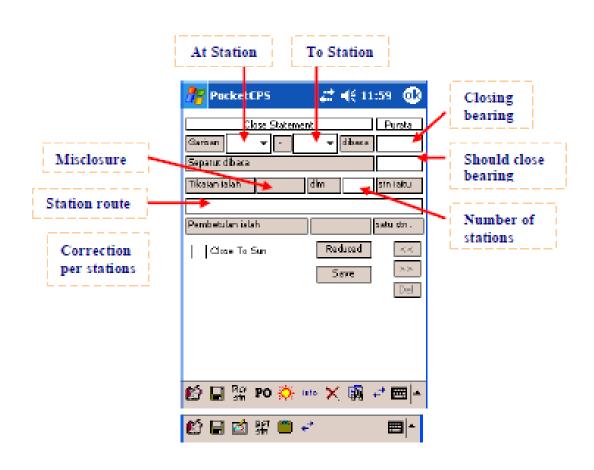
dist	Measure Dist only button. Measure distance to online station.
6	Reduce button. Reduces the measurement to produce mean, reduction and final value. 'Dpi' will be auto calculated and displayed.
	Save button. Set save index to save measurement to database.
	Sketch button. To view sketch.
111	POL Tape button.
	View Field Book button. View the record in field book.
[36] elm	View Last Stn button. Provide a list of 20 mostly used stn ID
Dist adi.	Distance adjustment. To adjust the horizontal distance

BEARING CLOSE



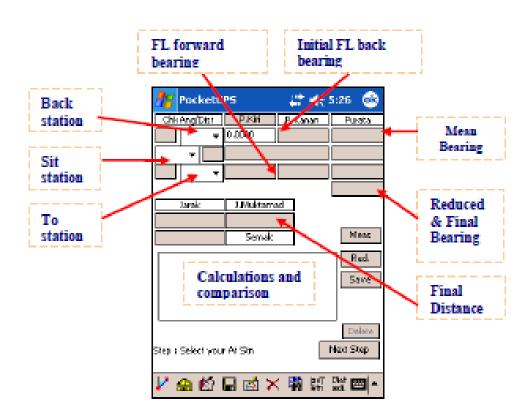
Hbv B	Measure horizontal bearing button. Measures Face Left the first time and Face Right
HbrB	for the second time
	Reduce button. Reduces the measurement to produce mean, reduction and final value.
	Save button. Set save index to save measurement to database.
	Measure All button. Measures both face left and face right measurements transiting automatically. Applicapable to motorized instruments with auto targeting system only.
	Sketch button. To view sketch.
×	Delete button. Deletes the record (applicable during view record mode).
	View Field Book button. View the record in field book.
[26T eth	View Last Stn button. Provide a list of 20 mostly used stn ID
	Remark

CLOSE STATEMENT



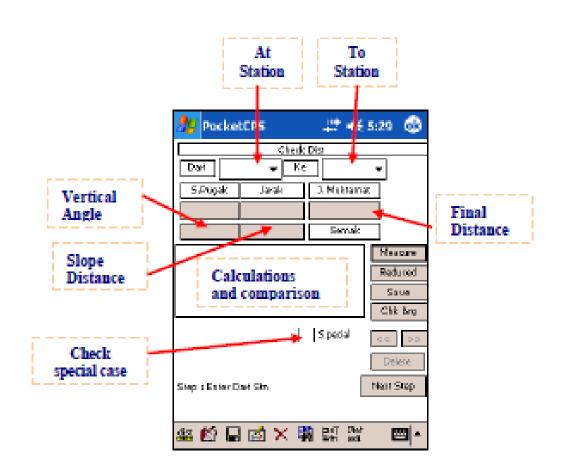
	Reduce button. Reduces the measurement to produce mean, reduction and final value. Close bearing and should close bearing will be automatically retrieved and displayed with the misclosure and correction per stations calculated. If no station route has been entering, user is provided a list of route to select from.
	Save button. Set save index to save measurement to database.
Pier etn	Provides a dialog with all available stations to pick and connect as station route.
PO	Provides a dialog with all available PO line bearings to select as "Should close bearing".
(Ö. -	Provides a dialog with all available Sun mean grid bearings to select as "Should close bearing".
info	Info button. Either solar or user. You can put a remark there.
×	Delete button. Deletes the record (applicable during view record mode).
	View Field Book button. View the record in field book.
**	Switch menu bar
4	Sketch button. To view sketch.
jast Str	View Last Stn button. Provide a list of 20 mostly used stn ID
	Remark

CHECK ANGLE DIST



V	Set bearing button. Sets traverse line reference bearing to the instrument and displayed.
	Measure button. Measures Face Left forward bearing and distance.
	Reduce button. Reduces the measurement to produce mean, reduction and final value.
	Comparison between computed and true line bearing and distance will be shown.
	Save button. Set save index to save measurement to database.
	Sketch button. To view sketch.
×	Delete button. Deletes the record (applicable during view record mode).
翻	View Field Book button. View the record in field book.
ST Sin	View Last Stn button. Provide a list of 20 mostly used stn ID

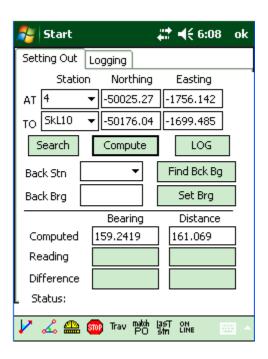
CHECK DISTANCE



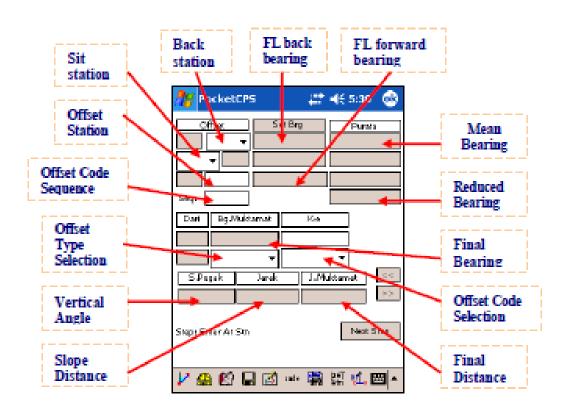
र्वाञ्च	Measure Dist only button. Measure distance to online station.
E	Reduce button. Reduces the measurement to produce mean, reduction and final value. Comparism between computed and true line distances will be shown.
	Save button. Set save index to save measurement to database.
	Sketch button. To view sketch.
×	Delete button. Deletes the record (applicable during view record mode).
	View Field Book button. View the record in field book.
p≥T Sin	View Last Stn button. Provide a list of 20 mostly used stn ID

Setting out by coordinate

- Compute Bearing Distance from 2 coordinate
- Import adjusted coordinate from SUM

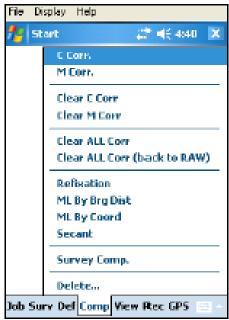


OFFSET DETAILS



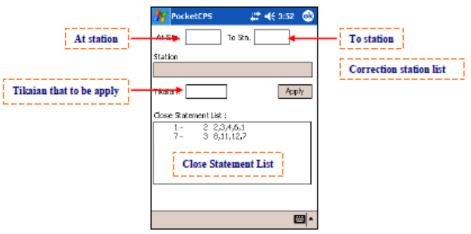
1	Set bearing button. Sets back reference line bearing to the instrument and displayed.
eto.	Measure button. Measures Face Left.
6	Reduce button. Reduces the measurement to produce mean, reduction and final value
	Save button. Set save index to save measurement to database.
	Sketch button. To view sketch.
code	Code button. Code list for details.
	View Field Book button. View the record in field book.
	View Last Stn button. Provide a list of 20 mostly used stn ID

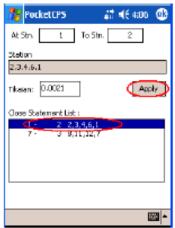
CORRECTION



1			
C Corr.	To perform Closure Correction.		
M Corr.	To perform Meridian Correction.		
Clear C Corr	To clear Closure corrections accordingly starting from particular record.		
Clear M Corr	To clear Meridian corrections accordingly starting from particular record.		
Clear All Corr	To CLEAR all M Corr and C Corr.		
Clear All Corr (back to RAW)	To CLEAR all M Corr and C Corr and make the data back to RAW		
Refixation	To perform Refixation.		
ML by Brg Dist	To compute Missing Line by Bearing and Distance.		
ML by Coord	To compute Missing Line by Coordinates.		
Secant	To compute bearing and distance of the Secant Line of a road reserve survey.		
Survey Comp.	To perform Survey Computation.		
Delete	Selection of delete functions:		
Remove All PO Line	 Remove All PO Line 		
Remove All Missing Line Remove SCL Line	 Remove All Missing Line 		
Remove Dead Stn	 Remove SKL Line 		
	 Remove Dead Stations (unlink stations). 		

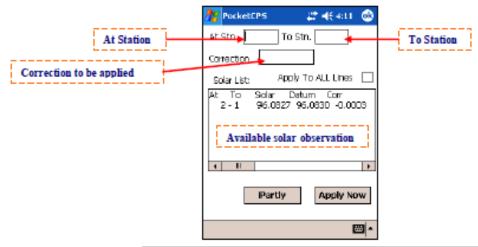
C CORRECTION





- Navigate to Comp > C Corr. A C Corr screen will be displayed.
- Select the close statement list that you want to apply the C Correction by just double tab the selected close statement. Then tab Apply button. So, the C Correction is done.
- You can view the applied C correction at field book. Please Navigate to Rec > View Field Book.

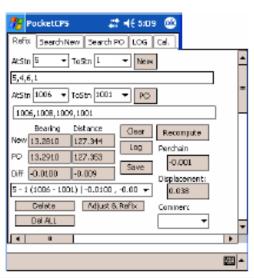
M CORRECTION





- Navigate to <u>Comp > M Corr</u>. An M Corr dialog will be displayed.
- Select the sun list that you did for Sun Observation. Apply the C Correction by just double the 2-1.
- Change the At Stn and To Stn where you want to start apply the M Correction if needed. Then tab Apply Now button. So, the M Correction is done.
- You can view the applied M correction at field book. Please Navigate to Rec > View Field Book.

BASE COMPUTATION & REFIXATION

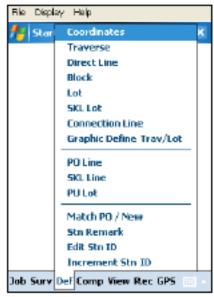


New	Auto retrieves the New Station route according to New AtStn and ToStn input and computes the bearing and distances. Difference between PO and New will be auto compute and displayed respectively.
PO	Auto retrieves the PO Station route according to PO AtSm and ToSm input and computes the bearing and distances.
Recompute	To re-computes if users has make changes to its routes.
Search New	Search more function to search more traverse route.
Search PO	Search more function to search more PO route.
LOG	View Logged Base information.
Cal.	View Calculation of the particular baseline.

New	Auto retrieves the New Station route according to New AtStn and ToStn input and computes the bearing and distances. Difference between PO and New will be auto compute and displayed respectively.
PO	Auto retrieves the <i>PO Station route</i> according to PO AtStn and ToStn input and computes the bearing and distances.
Recompute	To re-computes if users has make changes to its routes.
Search New	Search more function to search more traverse route.
Search PO	Search more function to search more PO route.
LOG	View Logged Base information.
Cal.	View Calculation of the particular baseline.

Select Route	View the calculation for that new / PO traverse route when more than 1 new traverse route is showed in list.
Clear	Clear all fields.
Log	Log the base before adjusting PO value.
Save	From the log file, choose the best base and save it.
Adjust & Refix	Perform base adjustment when user finds the results are within tolerance. After completing base calculation, do the refixation for the missing mark.

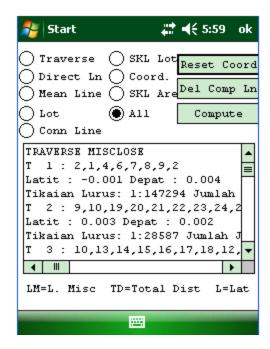
DEFINITION MENU

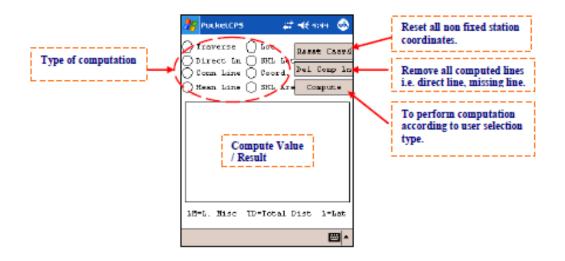


Coordinates	To view and define fixed coordinates.		
Traverse	To define Traverse.		
Direct Line	To define Direct Line.		
Block	To define a block of lots		
Lot	To define Lot.		
SKL Lot	To view defined imported SKL Lot.		
Connection Line	To define Connection Line.		
Graphic Define Trav/Lot	To graphically define Traverse and Lot by graphic picking.		
Line Entry	To enter/create a new line.		
PO Line	To enter the PO lines		
SKL Line	To enter the SKL Lines		
PU Lot	To Check PU ASCII return information		
Match PO/New	To match (transpose) and view existing matches between PO and new stations.		
Stn Remark	To put station remark.		
Edit Stn ID	To edit the station ID		
Increment Stn ID	To increase the station id numbering from particular number.		

Survey computation

 Survey computation functions to compute traverse misclosures including lot and coordinate calculations.





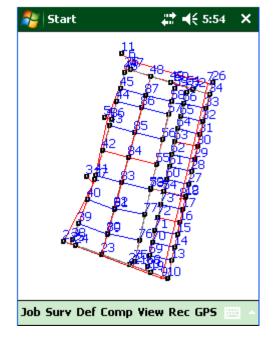


- 1. Go to Comp > Survey Comp. to do all you computation.
- Select the radio button for the type of survey you want to compute.
- 3. After select the type of computation, tab the Compute button

Field Sketch

Field sketch or graphic view of survey
 observation is generated in real time for easy
 check and verification of survey observations

in the field.



Field Book

 Field survey booking is done in real time at the touch of a button and eliminate the need for manual booking and significantly reduced the

processing time.

#	Start		# ₹ 5:56	ok
V	Show De	eleted Lin	es	
				•
				-
	2	207°15'00	27°15'00	
1	Pkt 3	212000	133°59'06	11
	3	313 39 00	133 39 00	
				Ш
	2	207°15'00	27°15'00	-
1	Pkt	20. 20 00	2. 10 00	≡
	4	12"12'01	192°12'07	Н
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1		L		
			Search	
4	F		P.	H -