



Post-Processing Service Based on RTX Technology

TrimbleRTX.com

Contributor: Meclsurveyamap@gmail.com
 Reference Name: Survey Tools GNSS Processing
 Upload Date: 01/29/2025 11:49:23 UTC

Report Time Frame:
 Start Time: 01/29/2025 03:41:09 UTC
 End Time: 01/29/2025 08:41:53 UTC
 Observation File Type(s): RINEX
 Observation File(s): 05600290.25o
 Antenna:
 Name: TRMR12I NONE
 Height: 2.120 m
 Reference: Bottom of antenna mount
 Receiver Name: TRIMBLE R12i
 Coordinate Systems: ITRF2014
 Tectonic Plate: India (Auto-detected)
 Tectonic Plate Model: MORVEL56
 Processing Interval: 10 s

Statistics

# Total Obs	# Usable Obs	# Used Obs	Percent
18045	1804	1805	100

Used Satellites

# Total Satellites:	38
GPS:	G02 G03 G04 G06 G07 G08 G09 G13 G14 G16 G17 G19 G27 G30
GLONASS:	R01 R02 R03 R04 R05 R12 R14 R15 R16 R17 R18 R19 R24
Galileo:	E04 E06 E07 E13 E19 E21 E26 E27 E29 E31 E33

Processing Results

ITRF2014 at Epoch 2010.0		
Coordinate	Value	σ
X	1354723.785 m	0.004 m
Y	5943473.024 m	0.009 m
Z	1871135.144 m	0.004 m
Latitude	17° 10' 19.47397" N	0.003 m
Longitude	77° 09' 34.82400" E	0.004 m
El. Height	333.786 m	0.009 m

ITRF2014 at Epoch 2025.08		
Coordinate	Value	σ
X	1354723.119 m	0.004 m
Y	5943473.003 m	0.009 m
Z	1871135.693 m	0.004 m
Latitude	17° 10' 19.49264" N	0.003 m
Longitude	77° 09' 34.84578" E	0.004 m
El. Height	333.788 m	0.009 m

Report Information

Trimble RTX Solution ID: 31829807
 Solution Type: Static
 Software Version: 8.5.1.20196
 Creation Date: 01/29/2025 11:50:13 UTC

Disclaimer

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Post-Processing Service Based on RTX Technology

TrimbleRTX.com

Contributor: Meclsurveymap@gmail.com
 Reference Name: Survey Tools GNSS Processing
 Upload Date: 01/30/2025 19:25:48 UTC

Report Time Frame:
 Start Time: 01/30/2025 03:54:14 UTC
 End Time: 01/30/2025 07:15:24 UTC
 Observation File Type(s): RINEX
 Observation File(s): 05600300.25o
 Antenna:
 Name: TRMR12I NONE
 Height: 2.120 m
 Reference: Bottom of antenna mount
 Receiver Name: TRIMBLE R12i
 Coordinate Systems: ITRF2014
 Tectonic Plate: India (Auto-detected)
 Tectonic Plate Model: MORVEL56
 Processing Interval: 10 s

Statistics

# Total Obs	# Usable Obs	# Used Obs	Percent
12071	1207	1207	100

Used Satellites

# Total Satellites:	33
GPS:	G02 G03 G04 G07 G08 G09 G13 G14 G16 G17 G19 G27 G30
GLONASS:	R03 R04 R05 R14 R15 R16 R17 R18 R24
Galileo:	E02 E03 E05 E07 E08 E15 E25 E27 E30 E34 E36

Processing Results

ITRF2014 at Epoch 2010.0		
Coordinate	Value	σ
X	1350710.516 m	0.004 m
Y	5944180.535 m	0.009 m
Z	1871795.357 m	0.005 m
Latitude	17° 10' 41.91894" N	0.003 m
Longitude	77° 11' 52.54827" E	0.004 m
El. Height	336.983 m	0.009 m

ITRF2014 at Epoch 2025.08		
Coordinate	Value	σ
X	1350709.850 m	0.004 m
Y	5944180.514 m	0.009 m
Z	1871795.906 m	0.005 m
Latitude	17° 10' 41.93762" N	0.003 m
Longitude	77° 11' 52.57006" E	0.004 m
El. Height	336.984 m	0.009 m

Report Information

Trimble RTX Solution ID: 31836557
 Solution Type: Static
 Software Version: 8.5.1.20196
 Creation Date: 01/30/2025 19:26:42 UTC

Disclaimer

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Project file data		Coordinate System	
Name:	D:\Malkhed\03.04.2025\03042025.vce	Name:	World wide/UTM
Size:	51 KB	Datum:	WGS 1984
Modified:	03-04-2025 18:33:40 (UTC:5)	Zone:	43 North
Time zone:	India Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Point List

ID	Easting (Meter)	Northing (Meter)	Elevation (Meter)	Feature Code
MEN-3/MES-2.	736326.064	1899084.422	428.317	BB
MEN-4/MES-1.	734176.458	1900805.215	417.827	BB
T-2	729905.157	1901780.312	399.292	

03-04-2025 18:37:05	D:\Malkhed\03.04.2025\03042025.vce	Trimble Business Center
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Project file data		Coordinate System	
Name:	D:\Malkhed\03.04.2025\03042025.vce	Name:	World wide/UTM
Size:	51 KB	Datum:	WGS 1984
Modified:	03-04-2025 18:33:40 (UTC:5)	Zone:	43 North
Time zone:	India Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report


Processing Summary

Observation	From	To	Solution Type	H. Prec. (Meter)	V. Prec. (Meter)	Geodetic Az.	Ellipsoid Dist. (Meter)	ΔHeight (Meter)
T-2 --- MEN-4/MES-1. (B1)	T-2	MEN-4/MES-1.	Fixed	0.0559	0.0647	103°29'55.1"	4380.0251	18.5133
T-2 --- MEN-3/MES-2. (B2)	T-2	MEN-3/MES-2.	Fixed	0.0116	0.0217	113°24'51.5"	6962.0031	28.9391

Acceptance Summary

Processed	Passed	Flag		Fail	
2	1	1		0	

T-2 - MEN-4/MES-1. (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	 T-2 --- MEN-4/MES-1. (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.0559 m
Vertical precision:	0.0647 m
RMS:	0.0227 m
Maximum PDOP:	1.631
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:21:00
Processing interval:	10 seconds

Vector Components (Mark to Mark)

From:	T-2				
	Grid		Local		Global
Easting	729905.157 m	Latitude	N17°11'21.53371"	Latitude	N17°11'21.53371"
Northing	1901780.312 m	Longitude	E77°09'41.90874"	Longitude	E77°09'41.90874"
Elevation	399.292 m	Height	320.764 m	Height	320.764 m

To:	MEN-4/MES-1.				
	Grid		Local		Global
Easting	734176.458 m	Latitude	N17°10'48.26213"	Latitude	N17°10'48.26213"
Northing	1900805.215 m	Longitude	E77°12'06.03341"	Longitude	E77°12'06.03341"
Elevation	417.827 m	Height	339.277 m	Height	339.277 m

Vector					
ΔEasting	4271.3004 m	NS Fwd Azimuth	103°29'55.1"	ΔX	-4082.0250 m
ΔNorthing	-975.0967 m	Ellipsoid Dist.	4380.0251 m	ΔY	1256.8661 m
ΔElevation	18.534 m	ΔHeight	18.5133 m	ΔZ	-971.7546 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0212 m	σ NS fwd Azimuth	0°00'00.8"	σ ΔX	0.0229 m
σ ΔNorthing	0.0189 m	σ Ellipsoid Dist.	0.0222 m	σ ΔY	0.0323 m
σ ΔElevation	0.0330 m	σ ΔHeight	0.0330 m	σ ΔZ	0.0182 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0005246933		
Y	0.0002311804	0.0010422876	
Z	0.0001558942	0.0000369205	0.0003296980

Occupations

	From	To
Point ID:	T-2	MEN-4/MES-1.
Data file:	D:\Malkhed \03.04.2025\03042025\00850930.T02	D:\Malkhed \03.04.2025\03042025\00280930.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

T-2 - MEN-3/MES-2. (Invalid leap seconds-Invalid leap seconds) (S2)

Baseline observation:	T-2 --- MEN-3/MES-2. (B2)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.0116 m
Vertical precision:	0.0217 m
RMS:	0.0162 m
Maximum PDOP:	1.611
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:30:20
Processing interval:	10 seconds

Vector Components (Mark to Mark)

From:	T-2				
Grid		Local		Global	
Easting	729905.157 m	Latitude	N17°11'21.53371"	Latitude	N17°11'21.53371"
Northing	1901780.312 m	Longitude	E77°09'41.90874"	Longitude	E77°09'41.90874"
Elevation	399.292 m	Height	320.764 m	Height	320.764 m

To:	MEN-3/MES-2.				
Grid		Local		Global	
Easting	736326.064 m	Latitude	N17°09'51.50930"	Latitude	N17°09'51.50930"
Northing	1899084.422 m	Longitude	E77°13'18.08344"	Longitude	E77°13'18.08344"
Elevation	428.317 m	Height	349.703 m	Height	349.703 m

Vector					
ΔEasting	6420.9064 m	NS Fwd Azimuth	113°24'51.5"	ΔX	-6042.3302 m
ΔNorthing	-2695.8897 m	Ellipsoid Dist.	6962.0031 m	ΔY	2240.2730 m
ΔElevation	29.024 m	ΔHeight	28.9391 m	ΔZ	-2635.6860 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0047 m	σ NS fwd Azimuth	0°00'00.1"	σ ΔX	0.0052 m
σ ΔNorthing	0.0030 m	σ Ellipsoid Dist.	0.0047 m	σ ΔY	0.0105 m
σ ΔElevation	0.0111 m	σ ΔHeight	0.0111 m	σ ΔZ	0.0041 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000270366		
Y	0.0000216000	0.0001096878	
Z	0.0000100950	0.0000279479	0.0000169749

Occupations

	From	To
Point ID:	T-2	MEN-3/MES-2.
Data file:	D:\Malkhed \03.04.2025\03042025\00850930.T02	D:\Malkhed \03.04.2025\03042025\00280930.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Project file data		Coordinate System	
Name:	D:\Malkhed\04.04.2025\040425.vce	Name:	World wide/UTM
Size:	56 KB	Datum:	WGS 1984
Modified:	04-04-2025 18:28:08 (UTC:5)	Zone:	43 North
Time zone:	India Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Point List

ID	Easting (Meter)	Northing (Meter)	Elevation (Meter)	Feature Code
MWN-3_MWS-1.	732330.105	1899842.294	409.939	BB
MWN-4_MWS-2.	730003.904	1901074.665	404.550	BB
PBH-1 M1-N	730421.001	1901250.957	401.409	BH
T-2	729905.157	1901780.312	399.292	

04-04-2025 18:45:13	D:\Malkhed\04.04.2025\040425.vce	Trimble Business Center
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Project file data		Coordinate System	
Name:	D:\Malkhed\04.04.2025\040425.vce	Name:	World wide/UTM
Size:	56 KB	Datum:	WGS 1984
Modified:	04-04-2025 18:28:08 (UTC:5)	Zone:	43 North
Time zone:	India Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec. (Meter)	V. Prec. (Meter)	Geodetic Az.	Ellipsoid Dist. (Meter)	ΔHeight (Meter)
T-2 --- PBH-1 M1-N (B4)	T-2	PBH-1 M1-N	Fixed	0.0044	0.0077	136°22'46. 6"	738.9398	2.0951
MWN-3_MWS-1. (B5)	T-2	MWN- 3_MWS-1.	Fixed	0.0050	0.0082	129°16'14. 3"	3103.4277	10.5702
MWN-4_MWS-2. (B1)	T-2	MWN- 4_MWS-2.	Fixed	0.0033	0.0048	172°40'22. 5"	712.3414	5.2260

Acceptance Summary

Processed	Passed	Flag		Fail	
3	3	0		0	

T-2 - PBH-1 M1-N (Invalid leap seconds-Invalid leap seconds) (S2)

Baseline observation:	T-2 --- PBH-1 M1-N (B4)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.0044 m
Vertical precision:	0.0077 m
RMS:	0.0053 m
Maximum PDOP:	1.837
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:10:31
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	T-2				
Grid		Local		Global	
Easting	729905.157 m	Latitude	N17°11'21.53371"	Latitude	N17°11'21.53371"
Northing	1901780.312 m	Longitude	E77°09'41.90874"	Longitude	E77°09'41.90874"
Elevation	399.292 m	Height	320.764 m	Height	320.764 m

To:	PBH-1 M1-N				
Grid		Local		Global	
Easting	730421.001 m	Latitude	N17°11'04.13263"	Latitude	N17°11'04.13263"
Northing	1901250.957 m	Longitude	E77°09'59.15992"	Longitude	E77°09'59.15992"
Elevation	401.409 m	Height	322.859 m	Height	322.859 m

Vector					
ΔEasting	515.8436 m	NS Fwd Azimuth	136°22'46.6"	ΔX	-461.4935 m
ΔNorthing	-529.3544 m	Ellipsoid Dist.	738.9398 m	ΔY	269.3364 m
ΔElevation	2.117 m	ΔHeight	2.0951 m	ΔZ	-510.4639 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0018 m	σ NS fwd Azimuth	0°00'00.5"	σ ΔX	0.0018 m
σ ΔNorthing	0.0013 m	σ Ellipsoid Dist.	0.0015 m	σ ΔY	0.0037 m
σ ΔElevation	0.0039 m	σ ΔHeight	0.0039 m	σ ΔZ	0.0017 m



Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000034016		
Y	0.0000017753	0.0000140503	
Z	0.0000003523	0.0000036828	0.0000028861

Occupations

	From	To
Point ID:	T-2	PBH-1 M1-N
Data file:	D:\Malkhed \04.04.2025\040425\00850940.T02	D:\Malkhed \04.04.2025\040425\00280941.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

T-2 (Invalid leap seconds-Invalid leap seconds) (S3)

Baseline observation:	MWN-3_MWS-1. (B5)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.0050 m
Vertical precision:	0.0082 m
RMS:	0.0121 m
Maximum PDOP:	1.482
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:30:04
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	T-2				
	Grid		Local		Global
Easting	729905.157 m	Latitude	N17°11'21.53371"	Latitude	N17°11'21.53371"
Northing	1901780.312 m	Longitude	E77°09'41.90874"	Longitude	E77°09'41.90874"
Elevation	399.292 m	Height	320.764 m	Height	320.764 m

To:	MWN-3_MWS-1.				
	Grid		Local		Global
Easting	732330.105 m	Latitude	N17°10'17.62896"	Latitude	N17°10'17.62896"
Northing	1899842.294 m	Longitude	E77°11'03.20732"	Longitude	E77°11'03.20732"
Elevation	409.939 m	Height	331.334 m	Height	331.334 m

Vector					
ΔEasting	2424.9477 m	NS Fwd Azimuth	129°16'14.3"	ΔX	-2211.5360 m
ΔNorthing	-1938.0174 m	Ellipsoid Dist.	3103.4277 m	ΔY	1109.0829 m
ΔElevation	10.646 m	ΔHeight	10.5702 m	ΔZ	-1873.8745 m

Standard Errors

Vector errors:					
$\sigma \Delta$ Easting	0.0020 m	σ NS fwd Azimuth	0°00'00.1"	$\sigma \Delta$ X	0.0019 m
$\sigma \Delta$ Northing	0.0018 m	σ Ellipsoid Dist.	0.0020 m	$\sigma \Delta$ Y	0.0041 m
$\sigma \Delta$ Elevation	0.0042 m	$\sigma \Delta$ Height	0.0042 m	$\sigma \Delta$ Z	0.0020 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000035525		
Y	0.0000007574	0.0000170604	
Z	0.0000004462	0.0000031295	0.0000039538

Occupations

	From	To
Point ID:	T-2	MWN-3_MWS-1.
Data file:	D:\Malkhed \04.04.2025\040425\00850940.T02	D:\Malkhed \04.04.2025\040425\00280940.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

T-2 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	MWN-4_MWS-2. (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.0033 m
Vertical precision:	0.0048 m
RMS:	0.0072 m
Maximum PDOP:	1.897
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:27:14
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	T-2				
Grid		Local		Global	
Easting	729905.157 m	Latitude	N17°11'21.53371"	Latitude	N17°11'21.53371"
Northing	1901780.312 m	Longitude	E77°09'41.90874"	Longitude	E77°09'41.90874"
Elevation	399.292 m	Height	320.764 m	Height	320.764 m

To:	MWN-4_MWS-2.				
Grid		Local		Global	
Easting	730003.904 m	Latitude	N17°10'58.55133"	Latitude	N17°10'58.55133"
Northing	1901074.665 m	Longitude	E77°09'44.98304"	Longitude	E77°09'44.98304"
Elevation	404.550 m	Height	325.990 m	Height	325.990 m

Vector					
ΔEasting	98.7461 m	NS Fwd Azimuth	172°40'22.5"	ΔX	-41.0820 m
ΔNorthing	-705.6466 m	Ellipsoid Dist.	712.3414 m	ΔY	228.6077 m
ΔElevation	5.258 m	ΔHeight	5.2260 m	ΔZ	-673.4687 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0013 m	σ NS fwd Azimuth	0°00'00.4"	σ ΔX	0.0014 m
σ ΔNorthing	0.0010 m	σ Ellipsoid Dist.	0.0010 m	σ ΔY	0.0023 m
σ ΔElevation	0.0024 m	σ ΔHeight	0.0024 m	σ ΔZ	0.0012 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000018834		
Y	0.0000006583	0.0000053209	
Z	0.0000002252	0.0000014378	0.0000014392

Occupations

	From	To
Point ID:	T-2	MWN-4_MWS-2.
Data file:	D:\Malkhed \04.04.2025\040425\00850940.T02	D:\Malkhed \04.04.2025\040425\00280942.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	30-08-2019 13:58:00 (UTC:-6)	Zone:	43 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Point List

ID	Easting (Meter)	Northing (Meter)	Elevation (Meter)	Feature Code
1	730396.477	1899648.988	411.489	PBH-2 m1S
2	730341.689	1900446.058	403.728	PBH-1 m1S
3	730420.998	1901251.192	401.402	PBH-1 m1n
4	731885.667	1901326.327	407.623	PBH-2 m1n
5	731941.01	1900529.041	411.216	PBH-3 m1n
6	731995.618	1899730.348	406.847	PBH-3 m1s
Base-1	729717.66	1899870.354	412.405	BASE

29-01-2025 23:08:04		Trimble Business Center
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Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	30-08-2019 13:58:00 (UTC:-6)	Zone:	43 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
Base-1 --- 6 (B1)	Base-1	6	Fixed	0.0123	0.0196	94°09'17.7"	2281.6650	-5.5523
Base-1 --- 5 (B2)	Base-1	5	Fixed	0.0153	0.0242	74°08'08.2"	2318.2684	-1.1473
Base-1 --- 4 (B3)	Base-1	4	Fixed	0.0086	0.0163	56°45'14.2"	2610.8585	-4.7043
Base-1 --- 3 (B4)	Base-1	3	Fixed	0.0059	0.0101	27°37'49.5"	1549.2498	-10.9359
Base-1 --- 2 (B5)	Base-1	2	Fixed	0.0105	0.0143	47°56'40.7"	848.8109	-8.6478
Base-1 --- 1 (B6)	Base-1	1	Fixed	0.0083	0.0128	108°41'57.7"	713.8176	-0.9229

Acceptance Summary

Processed	Passed	Flag		Fail	
6	6	0		0	

Base-1 - 6 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	Base-1 --- 6 (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0123 m
Vertical precision:	0.0196 m
RMS:	0.0220 m
Maximum PDOP:	0.861
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:06:00
Processing interval:	15 seconds
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:		Base-1			
Grid		Local		Global	
Easting	729717.660 m	Latitude	N17°10'19.49264"	Latitude	N17°10'19.49264"
Northing	1899870.354 m	Longitude	E77°09'34.84578"	Longitude	E77°09'34.84578"
Elevation	412.405 m	Height	333.788 m	Height	333.788 m

To:		6			
Grid		Local		Global	
Easting	731995.618 m	Latitude	N17°10'14.11107"	Latitude	N17°10'14.11107"
Northing	1899730.348 m	Longitude	E77°10'51.85002"	Longitude	E77°10'51.85002"
Elevation	406.847 m	Height	328.236 m	Height	328.236 m

Vector					
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Δ Easting	2277.9576 m	NS Fwd Azimuth	94°09'17.7"	ΔX	-2209.2934 m
Δ Northing	-140.0058 m	Ellipsoid Dist.	2281.6650 m	ΔY	547.7961 m
Δ Elevation	-5.558 m	Δ Height	-5.5523 m	ΔZ	-159.7134 m

Standard Errors

Vector errors:					
σ Δ Easting	0.0082 m	σ NS fwd Azimuth	0°00'00.8"	σ ΔX	0.0083 m
σ Δ Northing	0.0084 m	σ Ellipsoid Dist.	0.0083 m	σ ΔY	0.0187 m
σ Δ Elevation	0.0196 m	σ Δ Height	0.0196 m	σ ΔZ	0.0101 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000693264		
Y	0.0000356529	0.0003515148	
Z	0.0000188095	0.0000923692	0.0001025291

Occupations

	From	To
Point ID:	Base-1	6
Data file:	C:\Users\Dell\OneDrive\Documents\Trimble	C:\Users\Dell\OneDrive\Documents\Trimble
Receiver type:	R12i	R12i
Receiver serial number:	6346700560	6346700562
Antenna type:	R12i Internal	R12i Internal
Antenna serial number:	-----	-----
Antenna height (measured):	2.0700 m	2.0000 m
Antenna method:	Bottom of quick release	Bottom of quick release

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	30-08-2019 13:58:00 (UTC:-6)	Zone:	43 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Point List

ID	Easting (Meter)	Northing (Meter)	Elevation (Meter)	Feature Code
7	734476.592	1900293.252	419.564	pbh1m2s
8	736055.542	1900653.946	422.127	pbh1m2n
9	736123.002	1899710.543	425.767	pbh2m2n
10	737708.208	1899969.335	421.366	pbh3m2n
11	734572.564	1898943.686	419.048	pbh2m2s
Base-2	733780.722	1900606.231	415.545	BASE

31-01-2025 01:30:45		Trimble Business Center
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Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	30-08-2019 13:58:00 (UTC:-6)	Zone:	43 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
Base-2 --- 11 (B1)	Base-2	11	Fixed	0.0041	0.0077	155°10'53.4	1840.9738	3.4322
Base-2 --- 10 (B2)	Base-2	10	Fixed	0.0073	0.0141	99°51'37.7"	3977.6487	5.8193
Base-2 --- 9 (B3)	Base-2	9	Fixed	0.0068	0.0118	111°34'34.2	2506.9864	10.1969
Base-2 --- 8 (B4)	Base-2	8	Fixed	0.0065	0.0100	89°26'52.2"	2274.6776	6.5992
Base-2 --- 7 (B5)	Base-2	7	Fixed	0.0034	0.0044	114°51'57.8	762.8020	4.0095

Acceptance Summary

Processed	Passed	Flag	Fail
5	5	0	0

Base-2 - 11 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	Base-2 --- 11 (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0041 m
Vertical precision:	0.0077 m
RMS:	0.0188 m
Maximum PDOP:	0.850
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:06:45
Processing interval:	15 seconds
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:		Base-2			
Grid		Local		Global	
Easting	733780.722 m	Latitude	N17°10'41.93762"	Latitude	N17°10'41.93762"
Northing	1900606.231 m	Longitude	E77°11'52.57006"	Longitude	E77°11'52.57006"
Elevation	415.545 m	Height	336.984 m	Height	336.984 m

To:		11			
Grid		Local		Global	
Easting	734572.564 m	Latitude	N17°09'47.58329"	Latitude	N17°09'47.58329"
Northing	1898943.686 m	Longitude	E77°12'18.71706"	Longitude	E77°12'18.71706"
Elevation	419.048 m	Height	340.416 m	Height	340.416 m

Vector					
ΔEasting	791.8423 m	NS Fwd Azimuth	155°10'53.4"	ΔX	-643.5417 m

Δ Northing	-1662.5450 m	Ellipsoid Dist.	1840.9738 m	ΔY	655.4502 m
Δ Elevation	3.503 m	Δ Height	3.4322 m	ΔZ	-1595.5554 m

Standard Errors

Vector errors:					
$\sigma \Delta$ Easting	0.0027 m	σ NS fwd Azimuth	0°00'00.3"	$\sigma \Delta X$	0.0029 m
$\sigma \Delta$ Northing	0.0029 m	σ Ellipsoid Dist.	0.0029 m	$\sigma \Delta Y$	0.0074 m
$\sigma \Delta$ Elevation	0.0077 m	$\sigma \Delta$ Height	0.0077 m	$\sigma \Delta Z$	0.0035 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000081903		
Y	0.0000075533	0.0000541011	
Z	0.0000024287	0.0000130960	0.0000122446

Occupations

	From	To
Point ID:	Base-2	11
Data file:	C:\Users\Dell\OneDrive\Documents\Trimble	C:\Users\Dell\OneDrive\Documents\Trimble
Receiver type:	R12i	R12i
Receiver serial number:	6346700560	6346700562
Antenna type:	R12i Internal	R12i Internal
Antenna serial number:	-----	-----
Antenna height (measured):	2.0700 m	2.0000 m
Antenna method:	Bottom of quick release	Bottom of quick release

Project file data		Coordinate System	
Name:	C:\Users\admin\Desktop\Malkhed \02.04.2025\02042025.vce	Name:	World wide/UTM
Size:	54 KB	Datum:	WGS 1984
Modified:	04-04-2025 22:21:17 (UTC:5)	Zone:	43 North
Time zone:	India Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Point List

ID	Easting (Meter)	Northing (Meter)	Elevation (Meter)	Feature Code
PBH-2 M-2N	736111.646	1899913.387	424.970	BH
PBH-3 M-1S	732028.003	1899747.741	407.052	BH
T-2	729905.157	1901780.312	399.292	

04-04-2025 22:25:07	C:\Users\admin\Desktop\Malkhed \02.04.2025\02042025.vce	Trimble Business Center
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Project file data		Coordinate System	
Name:	C:\Users\admin\Desktop\Malkhed 102.04.2025\02042025.vce	Name:	World wide/UTM
Size:	54 KB	Datum:	WGS 1984
Modified:	04-04-2025 22:21:17 (UTC:5)	Zone:	43 North
Time zone:	India Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec. (Meter)	V. Prec. (Meter)	Geodetic Az.	Ellipsoid Dist. (Meter)	ΔHeight (Meter)
PBH-3 M-1S (B3)	T-2	PBH-3 M-1S	Fixed	0.0099	0.0144	134°23'39. 3"	2938.2535	7.6777
PBH-2 M-2N (B6)	T-2	PBH-2 M-2N	Fixed	0.0094	0.0143	107°22'48. 7"	6479.4376	25.6287

Acceptance Summary

Processed	Passed	Flag		Fail	
2	2	0		0	

T-2 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	PBH-3 M-1S (B3)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.0099 m
Vertical precision:	0.0144 m
RMS:	0.0466 m
Maximum PDOP:	1.480
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:17:31
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	T-2				
Grid		Local		Global	
Easting	729905.157 m	Latitude	N17°11'21.53371"	Latitude	N17°11'21.53371"
Northing	1901780.312 m	Longitude	E77°09'41.90874"	Longitude	E77°09'41.90874"
Elevation	399.292 m	Height	320.764 m	Height	320.764 m

To:	PBH-3 M-1S				
Grid		Local		Global	
Easting	732028.003 m	Latitude	N17°10'14.66481"	Latitude	N17°10'14.66481"
Northing	1899747.741 m	Longitude	E77°10'52.95212"	Longitude	E77°10'52.95212"
Elevation	407.052 m	Height	328.442 m	Height	328.442 m

Vector					
ΔEasting	2122.8457 m	NS Fwd Azimuth	134°23'39.3"	ΔX	-1910.6511 m
ΔNorthing	-2032.5707 m	Ellipsoid Dist.	2938.2535 m	ΔY	1065.3854 m
ΔElevation	7.760 m	ΔHeight	7.6777 m	ΔZ	-1961.7951 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0033 m	σ NS fwd Azimuth	0°00'00.3"	σ ΔX	0.0042 m
σ ΔNorthing	0.0032 m	σ Ellipsoid Dist.	0.0021 m	σ ΔY	0.0069 m
σ ΔElevation	0.0073 m	σ ΔHeight	0.0073 m	σ ΔZ	0.0030 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000174173		
Y	0.0000191798	0.0000481768	
Z	-0.0000018181	0.0000057758	0.0000089084

Occupations

	From	To
Point ID:	T-2	PBH-3 M-1S
Data file:	C:\Users\admin\Desktop\Malkhed \02.04.2025\02042025\00850920.T02	C:\Users\admin\Desktop\Malkhed \02.04.2025\02042025\00280920.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Standard Errors

Vector errors:					
$\sigma \Delta \text{Easting}$	0.0038 m	$\sigma \text{ NS fwd Azimuth}$	0°00'00.1"	$\sigma \Delta X$	0.0040 m
$\sigma \Delta \text{Northing}$	0.0029 m	$\sigma \text{ Ellipsoid Dist.}$	0.0036 m	$\sigma \Delta Y$	0.0068 m
$\sigma \Delta \text{Elevation}$	0.0073 m	$\sigma \Delta \text{Height}$	0.0073 m	$\sigma \Delta Z$	0.0037 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000162843		
Y	0.0000074673	0.0000456248	
Z	0.0000019966	0.0000151323	0.0000139739

Occupations

	From	To
Point ID:	T-2	PBH-2 M-2N
Data file:	C:\Users\admin\Desktop\Malkhed \02.04.2025\02042025\00850920.T02	C:\Users\admin\Desktop\Malkhed \02.04.2025\02042025\00280920.T02
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5746R00085	5747R00028
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	46R00085	47R00028
Antenna height (measured):	2.0000 m	2.0000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Tracking Summary

