Annexure 'A'

SETUP OF ROVER (R8s)

Step 1: Turn on the Receiver R8s Rover and notice the light blinking.

Step 2: Mount the Receiver R8s Rover on the rod provided and place it vertical exactly over the Rover station mark with the help of bipod.
Step 3: Check the verticality of the rod viewing the bubble. Adjust the bipod legs if necessary.
Step 4: Connect Field Data Collector (Getac tab) to Wi Fi internet connection.
Step 5: Pair Field Data Collector (Getac tab) to the receiver R8s Rover with Bluetooth connectivity.Forthis go to Bluetooth icon in Field Data Collector (Getac tab), Add and pair Bluetooth device i.e. Rover, by steps shown in the following slides serially.

SOP Slides.docx - Microsoft Word
Picture Tools
Home
Insert
Page Layout
References
Mailings
Review
View
PDF
Format
Cut
Copy
Paste
Format Painter
Clipboard
Font
Paragraph
Styles
Find
Replace
Select
Editing
CamStudio
Open Source
Press the Stop Button to stop recording
Add a Bluetooth Device
Allow a Device to Connect
Show Bluetooth Devices
Send a File
Receive a File
Join a Personal Area Network
Open Settings
Remove Icon
Getac
www.getac.com
Type here to search
Page: 22 of 27
Words: 54
156%
10:43 AM
13-Jan-20

pairing rover with fdc.avi - VLC media player
Media
Playback
Audio
Video
Subtitle
Tools
View
Help
Settings
Home
Find a setting
Devices
Bluetooth & other devices
Printers & scanners
Mouse
Typing
Pen & Windows Ink
AutoPlay
USB
Bluetooth & other devices
Add Bluetooth or other device
Bluetooth
On
Now discoverable as "DESKTOP-0PGUK7P"
Show notifications to connect using Swift Pair
When selected, you can connect to supported Bluetooth devices quickly when they're close by and in pairing mode.
Download over metered connections
To help prevent extra charges, keep this off so device software (drivers, info, and apps) for new devices won't download while you're on metered Internet connections.
Related settings
Devices and printers
Type here to search
ENG
09:42
13-01-2020
00:05
00:00
10:51 AM
13-Jan-20

Step 6: Enter default PIN 0000 and click Connect tab. Your device is ready to go! message will be displayed for paired device R8s receiver and will reflect in the Settings window.

pairing rover with fdc.avi - VLC media player
Media Playback Audio Video Subtitle Tools View Help
Settings
Home
Find a setting
Devices
Bluetooth &
Printers & sc
Mouse
Add a device
Add a device
Make sure your device is turned on and discoverable. Select a device below to connect.
R8s, 5508R00573: Trimble
R8s, 5932R91103: Trimble
Connecting
Enter the PIN for R8s, 5932R91103: Trimble.
0000
Connect
Cancel
Tab
Space
ENG
10:57 AM
13-Jan-20

pairing rover with fdc.avi - VLC media player
Media Playback Audio Video Subtitle Tools View Help
Settings
Home
Find a setting
Devices
Bluetooth &
Printers & sc
Mouse
Typing
Pen & Windo
AutoPlay
USB
Add a device
Your device is ready to go!
R8s, 5932R91103: Trimble
Paired
Done
Type here to search
ENG
09:43
13-01-2020
11:16 AM
13-Jan-20

Step 7: Open Trimble Access application on the tab.

Step 8: Main window will open up. Click on NW corner tab as shown in the following slide.

Step 9: Click Instrument and GNSS functions.

Step 10: Choose Bluetooth icon and clickOK tab as shown below. Bluetooth window will open up.

Step 11: Select paired Trimble R8s Rover receiver, which is just paired, for first two drop down menus as shown below and click Accept tab. Press Esc tab to return to main menu.

Now Getac tab and Rover receiver both have been paired, connected, configured and ready to use.
Step 12: Click New tab to create a new project. New project window will open up.

Step 13: Provide a Name and Description (optional) to the project.

Step 14: Click Create tab at SE corner. New job window will open up.
Step 15: Provide a job name and click on Coord. Sys. Select coordinate system window will open up.

Step 16: Click radio button of Select from library as shown below and click Next tab.

Step 17: Select System, Zone, Datum and fill the approx. height of the terrain and click store tab.

Step 18: Click Enter tab at SE corner.
Click on units and check the details as follows
Click on Additional settings and check the details as follows

Click on accept

Step 19: Click on the NW corner tab on the main screen to select Settings and then Survey Styles. Survey Styles window will open up.

Step 20: Click New tab. Style details window will open up.

Step 21: Provide the Style name and Survey type. Click Accept tab. New window will open up.

Step 22: Click Edit tab for Rover options. Rover options window will open up.

Step 23: Provide the information as shown in the slide below.

Step 24: Provide Serial number of R8s receiver (Optional).

Step 25: Elevation mask and PDOP mask default values can be altered if required.
Step 26: GNSS Signal Tracking can be checked for desired constellations. Click Accept tab. Again, we will come back to new window.
Step 27: Click Edit tab for Rover data link. Rover data link window will open up.

Step 28: Select Type as Internet connection. Click on GNSS contact. A GNSS contact list will come up.

Step 29: Select desired GNSS contact, edit existing or create a new GNSS contact. Accordingly, a new window will open up.

Step 30: Here we will provide the IP address of Remote Server and IP Port of communicating Rover. IP Port will be unique for communicating Rover. There may be other Rovers communicating to the same server but IP Port will be different for different Rovers.
Below a new GNSS contact SOI SERVER SGW has been created. Click the Store tab.

NTRIP user name dgrb1 or dgrb2 or dgrb3	NTRIP password dgrb1 or dgrb2 or dgrb3	Ip Address 103.205.244.106 Port 2101

Click accept and go to Topo point

Step 31: Click Accept tab. We will return to main menu.

Step 32: Click Measure, select your Survey style and select Measure points as shown below

Step 33: Processing bar will appear for establishing connection to the Server.

Step 34: A tick will be displayed after successful connection as shown below in circle.

Step 35: click in option and select QC1&QC2

Step 36: RTK solution will be Float or Fix as shown in the circle below. Point name, Code and Antenna height can be provided if accepted. To accept click on SE corner tab as shown below. More points can be measured if we continue to store points.

FIXED

The Rover point collected will instantly give corrected coordinates with respect to Base.

SOP for Export RTK data file

Click on Trimble Access in your FDC (Getac)

Open your RTK project

Open your RTK Job (eg. RTK DEMO)

Now click on Export tab in your FDC

Export page will open.
Different File formats are given. Here select file format as “CSV WGS-84 lat longs”
In “File name” select your desired path
Select “Accept”
Now file has been exported in Lat Long format as path given and file will be opened in MS excel.

Again you will be back in your Job page

Export page will display again

Now we have to take coordinate in Easting & Northing format. So select “Comma delimited (*.CSV,*.TXT)” in File Format.

In “File name” select your desired path
Select “Accept”

Select “All points” from options and click on Accept.
Now file has been exported in Easting & Northing format as path given and file will be opened in MS excel.