



# PRASHANT SURVEYS

(ADVANCED LAND SURVEY & CONSULTANCY)

GSTIN : 27AABFP4811H1ZF • DPR • Mobile LiDAR • NSV • UAV • GPR • DGPS

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## SURVEY GRADE MOBILE LIDAR INSTRUMENTS

### ALONG WITH PROCESSING SOFTWARE

### OWNED BY M/s PRASHANT SURVEYS, Pune

Sr.	Name of Mobile LiDAR / NSV Equipment	Make	Numbers
	<b>(Survey Grade, Mobile LiDAR / NSV)</b>		
1)	<p>Leica Pegasus Mobile Mapping System / (NSV), with Z+F profiler 9012 Laser Scanner, having 119 m range &amp; Scan point density of 1 million points per second &amp; having 6 CCD cameras &amp; additional pavement camera for pavement analysis, cracks, distress &amp; IRI.</p> <p>(Width of corridor practically covered with dense 3D point cloud data = 150 m)</p>	<p>LEICA Geosystems, <b>Pegasus Two</b> Mobile Mapping System (MMS)</p>	2
2)	<p>Waypoint Inertial Explorer (for trajectory),</p> <p>Leica Auto PP (for data pre-processing &amp; preparing registered 3D point cloud data),</p> <p>Leica Map Factory advanced : Arc GSI; (for data processing &amp; feature extraction),</p> <p>Arc GIS Desktop (for drawings &amp; delivery)</p> <p>{4 License for pre-processing and 8 License for post processing &amp; feature extraction}.</p> <p>3D Reshaper {for classification, DEM / TIN}</p>	<p>LEICA Geosystems</p>	13

**SURVEY GRADE UAV / DRONE INSTRUMENT**

**ALONG WITH PROCESSING SOFTWARE**

**OWNED BY M/s PRASHANT SURVEYS, Pune**

<b>Sr.</b>	<b>Name of UAV / Drone Equipment</b>	<b>Make</b>	<b>Numbers</b>
1)	<p><b>(DGCA Approved, UAV / Drone, PPK Survey Grade, NPNT, with Rotary wings)</b></p> <p><b>LookOut VTOL Lite™- Model TALV2400_C</b> Mapper Series Industrial Unmanned Aerial System for Aerial Mapping, with onboard PPK / RTK NovAtel OEM7700 GPS / GNSS.</p> <p><b>Bird Specification :</b> RPA Category : Micro, Quad Copter, NPNT Physical Size 900 x 900 x 300 mm Max all up weight including payload = 2 Kg Operational Range Up to 2 Km, Max 8 Km. Endurance Up to 30 Mins, Cruise Speed 10 m/s</p> <p><b>Ground Control Station :</b> <b>TAS GCS™ - Industrial Version</b> Tablet based Proprietary software 10- inch Android Tablet with case (Make: Iball) 433 MHz Telemetry communication up to 2 Kms</p> <p><b>Sensor :</b> Calibrated A6000 Sony camera on 2-axis stabilized platform RAW, RAW+JPEG 16 mm Fixed focal length lens APS-C (23.5mm x 15.6mm) Exmor® R CMOS sensor 24.3 Megapixels Max Shutter Speed:1/160 Seconds Pixel size 15.1 μm<sup>2</sup> Colour depth - 24.1 bits Autonomous camera triggering Resolution GSD 2.4 cm / pixel</p> <p><b>Accuracy :</b> X &amp; Y = 2 cm to 5 cm, Z = 5 cm to 10 cm with PPK Novatel OEM 7700</p>	Throttle Aerospace Systems Pvt. Ltd., Bangalore, India.  (Made in India)	1
2)	<p><b>UAV Data Processing Software :</b> <u>Pix4d Professional Mapper Photogrammetric Software, Version 4.3.31</u></p>	Pix4d	2

**LIST OF DUAL FREQUENCY SURVEY GRADE, Differential Global Positioning**

**System, (DGPS) / GNSS RECEIVERS**

**ALONG WITH ACCESSORIES & POST PROCESSING SOFTWARE**

**OWNED BY M/s PRASHANT SURVEYS, PUNE.**

<b>Sr.</b>	<b>Name of equipment</b>	<b>Make / model</b>	<b>Numbers</b>
1)	Dual frequency, RTK Differential Global Positioning System (DGPS) Receiver with accuracy in static mode : Horizontal = +/- 5 mm + 0.5 ppm RMS Vertical = +/- 5 mm + 1 ppm RMS	Leica GS14  GNSS Systems	8 Nos.
2)	Dual frequency, Differential Global Positioning System (DGPS) Receiver with accuracy in static mode : Horizontal = +/- 5 mm + 0.5 ppm RMS Vertical = +/- 5 mm + 1 ppm RMS	Trimble R8  GNSS Systems	3 Nos.
3)	Dual frequency, Differential Global Positioning System (DGPS) Receiver with accuracy in static mode : Horizontal = +/- 5 mm + 0.5 ppm RMS Vertical = +/- 5 mm + 1 ppm RMS	Trimble 4800 & 5800  GPS Systems	4 Nos.
4)	Leica Field Controller CS10, 3.5 G.	Leica CS10	8 Nos.
5)	Trimble Control Unit (TCU) & TSC1	Trimble TCU & TSC1	6 Nos.
6)	Trimble Business Center, Leica Infinity, Leica Geo Office. (Licensed DGPS data Post Processing Software's).	Leica LGO & Infinity; Trimble TBC	8 Nos.

**LIST OF ELECTRONIC TOTAL STATION (ETS)**

**& OTHER SURVEY INSTRUMENTS**

**OWNED BY M/s PRASHANT SURVEYS, PUNE**

<b>Sr.</b>	<b>Name of Equipment</b>	<b>Make</b>	<b>Numbers</b>
1)	<b>Electronic Total Station instrument (ETS)</b>  Least Count = Angle : 1", Distance : 1 mm  Dist. Accuracy : 2 mm + / - 2 ppm  Leica : TCR 1202 / 1205 / 1102 / 705.  Leica : TC 703 / 805L / 403 / 407.	Leica	12
2)	Digital Levels (Electronic Levelling instrument with 1000 points storage).	Leica Sprinter 150M	2
3)	Disto-meter Leica A3.  (Electronic Distance Measuring Instrument)	Leica – Disto  A3.	4
4)	Auto Levels (Leveling instrument)	Pentax & Leica	4

**DETAILS OF WORKSTATIONS / COMPUTER SETUP AVAILABLE**

**WITH M/s PRASHANT SURVEYS, PUNE**

<b>Sr.</b>	<b>Name of Equipment</b>	<b>Make</b>	<b>Numbers</b>
1)	Desktop Computer Workstations  (Intel Pentium Processors - I 7)	Intel Pentium - I 7, 6 <sup>th</sup> & 4 <sup>th</sup> generation processors, 32 GB DDR RAM, 2 TB SSD HDD + 2TB SATA HDD, 2GB Quadro NVIDIA K 620 Graphics card, Dell Full HD 24" LED display.	13
2)	Desktop Computer (Intel Pentium Processors - I 3 & I 5)	Intel Pentium I 3 & I 5 Processors, 3.0 GHz, 8 GB DDR RAM, 1 TB SATA HDD, 256 MB NVIDIA Graphics card, 20" LED display.	10
3)	Laptop Computer	Dell Inspiron 15 7000, Intel i 7, 770HQ 2.8 GHz 16 GB RAM, 1 TB SSD, Lenovo Think pad E450, I7 / I5, 5200U, 8 GB RAM 2GB Graphics;	5
4)	Plotter (36" > A0 size)	Hp designjet T830 MFP colour	1
5)	Scanner (36">A0size)	Hp designjet T830 MFP colour	1
6)	Laser Printer A4;	Hp Laser Jet 1020 plus	2
7)	Scanner / Printer A4; Colour	A4 Size; Hp Colour deskjet F4288, Epson L4160.	4
8)	Blue Ray Disc Writer	Asus Blue Ray Disc, 25 & 50 GB	1
9)	DVD Writers	( L.G. 32 X & Sony Combo )	10
10)	Ammonia Printer	Classic – 303 ( A0 Size )	1