

SURVEYING FACILITY

GEOPHYSICAL SURVEY EQUIPMENTS

SL No.	Name of Test/Survey	Test Category
1	PS Logging	Down-hole Seismic Test (DS)
		Cross-hole Seismic Test (CS)
2	Seismic survey/MASW	Active/Passive
3	Micro Tremor	Single micro tremor/ Micro tremor array
4	Electrical Resistivity Survey	Vertical Electrical Sounding (VES)
		2D Resistivity (Electrical Resistivity Tomography)
		Spontaneous Potential (SP)
5	Ground Penetrating Radar (GPS)	Underground Utility Mapping
6	Electromagnetic Pipe Locator	Underground Utility Mapping

TOPOGRAPHIC & HYDROGRAPHIC SURVEY EQUIPMENTS

SL. No.	Name of Survey	No. of Instruments	Test Category
1	GNSS RTK Survey	17	Topographic, Physical Feature survey and GCP Collection
2	Total Station Survey	10	Topographic and Physical Feature survey
3	Digital Level	2	Spot level Survey
4	Auto Level	10	Spot level Survey
5	Handheld GPS	10	GPS surey for capture lat long of features in field
6	GPR	5	Underground Utility Mapping
7	Pipe Locator	5	Underground electric cable, pipe detector
8	UAV/Drone Survey	5	Imagery, 3D survey, Physical Feature Survey
9	Bathymetry Survey (Eco-sounder)	2	River/Channel/Pond cross-section
10	Photogrammetric Workstation	2	Settelite/UAV image processing
11	Plotter	1	Large format map print
12	Printer	3	Small format map/document print

13	Scanner	2	Map/document scanning
14	Computers/Laptops	15	Official/GIS mapping & others tasks
15	GIS softwate (Licenced)	4	GIS mapping and analysis
16	Image processing software (Licenced)	2	Settelite/UAV image processing
17	Photogrammetry software	2	Settelite/UAV image processing

GEOTECHNICAL TEST

SL No.	Name of Test/Survey
Field Test	
1	Standard Penetration Test/Cone Penetration Test
2	Van Shear Test
3	Pressure Meter Test
4	Field Density Test
Laboratory Test	
1	Water Content
2	Organic Matter
3	Unit Weight
4	Specific Gravity
5	Relative Density
6.	Grain Size Analysis
7	Elastic/Plastic Limits
8	Moisture-Density Relation
9	Permeability
10	Consolidation
11	Unconfined Compression Strength
12	Direct Shear
13	Tri-axial Compression

HYDROGEOLOGICAL TESTING EQUIPMENTS

Item	Equipments	Quantity
1.	Automatic data logger	32
2.	Dizital Water level meter	2
3.	Water Flowmeter	2

4.	PH Meter	5
5.	TDS meter	5
6.	Water Thermometer	5
7.	Electric Conductivity (EC) meter	5
8.	Portable Weather station	2
9.	Modflow (Modeling Software)	1
10.	SUTRA (Modeling Software)	1
11.	SWAT (Modeling Software)	1
12.	MATTLAB (Modeling Software)	1