

BAPATLA ENGINEERING COLLAGE: BAPATLA

DEPARTMENT OF CIVIL ENGINEERING

LAB EQUIPEMENT PURCHASE DETAILS (2015-2023)

MATERIAL TESTING LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2015-2016	Cube Moulds(12Nos)	30,240-00
2015-2016	Shake Table	9,51,937-00
2015-2016	Density Bottle	6,620-00
2019-2020	Self-compacting concrete apparatus	32,898-00
2019-2020	Cylindrical moulds (20)	54,752-00
2019-2020	Cube moulds (20)	39,648-00
Total Cost of Purchase RS		1,116,095-00

SURVEYING LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2015-2016	GPS(3 Nos)	53,550-00
2015-2016	Total station Batteries	13,860-00
2015-2016	Pentax Total station(2 Nos)	6,93,000-00
2015-2016	Abney level (6 Nos)	7,245-00
2015-2016	Penta graph (6 Nos)	12,600-00
2015-2016	Planimeter (6 Nos)	10,080-00
2018-2019	Electronic Tholidates (2)	1,68,150-00
Total Cost of Purchase RS		958,485-00

ENVIRONIMENTAL ENGINEERING LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2017-2018	Jar Test, DO meter, Conductivity test	55,900-00
2017-2018	Hot air oven, Muffle furnace, Digital PH Meter	97,527-00
2019-2020	Plastic Jars(50ml,100ml, 250ml,500ml,1000ml)	17895.00
Total Cost of Purchase RS		171,322-00

TRANSPORTATION ENGINEERING LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2017-2018	Density basket, Pavement dynamic cone ,Briquette mould, Modified roughness indicating machine,Tar viscometer	75,927-00
2018-2019	Automatic Compactor for Bituminous Mixes , Marshall Mould, Compaction Mould steel, Cylindrical (AIM 55002), IS Test Sieves (Fine aggregate),Laboratory Electric Oven, Abrasive charge, Brookfield Viscosity equipment.	13,12,933-00
2019-2020	5mm Sieve Segregation test	1,416-00
2019-2020	Elastic Recovery mould (4)	12,744-00
2019-2020	Asphalt Mixer Theoretical Density Meter	71,903-00
2019-2020	Thin Film Oven	84,960-00
2019-2020	Buoyancy Balance	1,13,634-00
2019-2020	Bitumen Penetration Kit (3)	4,190-00
2019-2020	Ductility Mould with base plate (4)	48,278-00
Total Cost of Purchase RS		1,725,985-00

GEOTECHNICAL LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2017-2018	Split spoon sampler, Electric Oven, base plates, Rammers, Vane shear test apparatus, Hydrometers, Pycnometer	1,95,950/-
2018-2019	Electronic oven, Laboratory vane shear, Drill rods. Etc., Proctor Compaction Moulds, Sieves, Specific Gravity bottle, Core cutter, Sieve brass frame	5,10,236-00
2019-2020	Permeability Test Apparatus (Falling Head)	31,026-00
2019-2020	Permeability moulds set (2)	53,100-00
2019-2020	CBR moulds Complete set (4)	89,208-00
2019-2020	Dial Gauge (4)	16,312-00
2019-2020	Proctors Light Compaction Moulds (4)	52102.00
2019-2020	Plastic Jars(50ml,100ml, 250ml,500ml,1000ml)	17895.00
2019-2020	Weighing Balance	21484.00
2022-2023	Drill Rods of length 2.00 m (8), 1.5m(8),1.0m(8),0.5m(8), split spoon samplers(10) and adapters(20)	290044.00
Total Cost of Purchase RS		1,277,357-00

FLUID MECHANICS & HYDRAULIC MECHANICAL LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2019-2020	Bernoulli's, Orifice, Mouth piece and Reynolds Apparatus	2,74,704-00
Total Cost of Purchase RS		2,74,704-00

COMPUTER APPLICATIONS IN CIVIL ENGINEERING LAB		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2016-2017	Staad Pro Software Update	1,08,775-00
2018-2019	ESRI India -GIS software 50 users	8,26,000-00
2018-2019	HP 280 G4 Desktops (11)	6,10,500-00
2018-2019	Renewal of STAAD software	1,41,600-00
2021-2022	MATLAB	4,68,592-00
2022-2023	ESRI India -GIS software 50 users Renewal	9,86,017-00
Total Cost of Purchase RS		3,141,484-00

Engineering Geology Lab		
YEAR	EQUIPMENT PURCHASE DETAILS	COST OF EQUIPMENT
2019-2020	Signal Stacking Resistivity Meter (Model SSR-MP-ATS)	253,110-00
2019-2020	Rocks & Minerals for Lab Display 7.5 cm approx.	57,565-00
2019-2020	Geological Specimens	
2019-2020	Streak Plates	
2019-2020	3D Raised Relief Models on Interior of the Earth	
2019-2020	3D Raised Relief Models on Rivers in Action (Water Cycle)	
2019-2020	3D Raised Relief Models on Rocks & Volcanoes	
2019-2020	3D Raised Relief Models on Volcanic System	
2019-2020	3D Raised Relief Models on Formation of Rocks	
2019-2020	3D Raised Relief Models on Model Earth Quake	
2019-2020	3D Raised Relief Models on Folds & Faults	
2019-2020	3D Self Framed Models on Rock Cycle	
2019-2020		
Total Cost of Purchase RS		

TOTAL EQUIPMENT PURCHASED FROM 2015 TO 2023 = 7,976,107-00--/