

CSIR-CRRI - High Value Equipment List projections for next 3-5 years [2020-21 -- 2025]

Budget year	Sr. No.	Name of Equipment	Estimate (in Lakhs)	Imported/ Indigenous
2020-2021	1	Compression Testing machine (1000 Ton Capacity) for Concrete	250.0	Indigenous
	2	Truck	35.0	Indigenous
	3	3D Laser based Scanner System	100.0	Imported
	4	Dynamic Data Acquisition system	30.0	Imported
	5	Software for service life prediction of concrete"Stadium ME"	55.0	Imported
	6	Bridge Diagnostic system	50.0	Imported
	7	X ray fluorescence (XRF) analyser	31.0	Imported
	8	High frequency Radar	50.0	Imported
	9	Universal Testing Machine (for RM and 4 point bend Beam Fatig test)	120.0	Imported
	10	Dynamic mechanical thermal analyser (DTMA)	90.0	Imported
	11	Environmental chamber	25.0	Imported
	12	Compression Testing machine for Bitumen	40.0	Imported
	13	Digital image correlation system	35.0	Imported
	14	Automated Road Survey System/Network Survey Vehicle	600.0	Imported
	15	Flexural Fatigue Machine	140.0	Imported
	16	Mobile Air Pollution Van	250.0	Imported
	17	Fluidyn Panache Software-PANROAD, AIR, REG	35.0	Imported
	18	Acoustic emission testing facility	23.0	Imported
	19	Rapid Chloride permeability test equipment	22.0	Imported
2021-2022	20	Displacement controlled flexural testing machine (close loop control)	30.0	Indigenous
	21	Data Acquisition system for Fibre optics sensor & Peizeoelectric sensors	100.0	Imported
	22	Remotly operated vehicle for under water bridge inspection & scour monitoring along with control system and software	50.0	Imported
	23	NDT equipment for steel (d) Radiography test	40.0	Imported
	24	Bending Beam Rheometer	55.0	Imported
	25	Geo technical/Pavement software (Plaxis 3D/GTX or equivalent)	30.0	Imported

	26	Continuous Friction Measuring Equipment with Utility Vehicle	60.0	Imported
	27	Co-efficient of thermal expansion test system for concrete	35.0	Imported
	29	Xenon Arch Chamber	50.0	Imported
	30	Portable Reflectometer- 2 Nos	25.0	Imported
	31	ARC GIS, Software 2 no 3 years	31.0	Imported
	32	IMAAP Subscription	25.0	Imported
	28	Freezing and Thawing of Concrete Apparatus	25.0	Imported
2022-2023	33	Material characterisation and evaluation of FRP	500.0	Indigenous
	35	Particle size Analyser (for range 0.01 to 3000micron)	30.0	Imported
	36	Aggregate Imaging Measurement System (AIMS)	42.0	Imported
	37	Pneumatic Adhesion Tensile Testing Instrument(PATTI)	25.0	Imported
	38	Wheel Tracker (Wet & Dry)	25.0	Imported
	39	MIT-DOWEL SCAN	50.0	Imported
	40	Mercury Intrusion Porosity meter	30.0	Imported
	41	XRD	130.0	Imported
	42	Alaki Silica Reaction (ASR)	40.0	Imported
	43	Impact Echo apparatus	30.0	Imported
	44	Road Marking Testing Equipments (2 units)	25.0	Imported
	45	Upgradation of Driver Simulator Laboratory	25.0	Imported
	46	Multichannel instrument Sound Book	75.0	Imported
	34	APS 420 APS dynamic shaker with 24 Input channels and DSA pro software	50.0	Imported
2023-2024	47	Bridge Inspection Unit and Instrumented Van	300.0	Indigenous
	48	EOT Crane	100.0	Indigenous
	49	Automatic Concrete Block Making Machine	40.0	Indigenous
	51	Bearing testing facility for POT bearings, Spherical and Cylindrical bearings	450.0	Imported
	52	CHNS-O analyser	80.0	Imported
	53	Road Crash Barrier Testing Facility	100.0	Imported
	54	FESEM (Field Emission Electron Scanning Microscope)	150.0	Imported
	50	Testing facility for Shock transmission	550.0	Imported
2024-2025	55	Inspection Trolley for Cable suspension bridge	150.0	Imported

56	3-D Printing system	150.0	Imported
57	Thermal Constant Analyser	30.0	Imported
58	Asphalt Mixture Performance Tester (AMPT)	50.0	Imported
59	Rolling Weight Deflectometer	650.0	Imported
60	Albedometer with Data Logger and complete accessories like irradiance meter, etc.	25.0	Imported