

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
1	Creation of complete range of independent Testing Facilities for Expansion Joints at CRRI, New Delhi
2	Consultancy services for conducting RSA for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis
3	Project Monitoring and Quality Assurance of Construction of a Three Lane Grade Separator on NH-58 near Meerut Tiraha, Ghaziabad (U.P.)
4	Collection and analysis of bridge condition & inventory data by MBIU or any other equipment for the purpose of the major/minor bridges on all NHs including those with NHAI for a period of three years
5	Technological Solutions for Enabling Smart Infrastructure: Integrating Piezoelectric Energy Harvesting and structural Health Monitoring in a Smart City
6	Evaluation of condition of Ranjit Singh Flyover connecting Barakhamba Road and Mata Sundri Road, New Delhi
7	Quality Assurance of Construction of Structures of Inner Ring Road (Phase-2) Fatehabad Road to Deori Road in Agra and Proof Checking of design of Bearings.
8	Quality Supervision of Construction of Inner Ring Road (Phase-II) from Fatehabad Road to Deori Road, Agra
9	Performance Evaluation of Embedded HILTI Anchors in Tension and shear under the Externally Applied Static Loading
10	Feasibility Study on "Utilization of Ferrochrome Slag" in Road Making (Phase-II)
11	Vibration Investigation & Mitigation Design for Colaba-Bandra-SEEPZ Corridor, Mumbai
12	To Examine the Route Survey Report from Mundra Port to GSPC PIPAVAV Power project site submitted by SCI for BHEL to render technical opinion regarding the adequacy of the route survey
13	Quality Supervision of Construction of Inner Ring Road (2nd Phase) from Fatehabad Road to Deori road, Agra
14	Development of Ambient Temperature Bituminous Mix Technology (ATMT) for Construction of Flexible Pavement
15	Development of Comprehensive Mobility (Traffic and Transportation System) Plan (CMP) for Ghaziabad City.
16	Safe Road Connectivity for Tripura State of North East Region of India
17	Sustainable Road Pavements in High Altitude Regions Using Geosynthetics
18	Inspection during strengthening work on Farakka Barrage, West Bengal
19	Preparation of RCom QFRF document P and proof checking of design for the construction of proposed Over Bridge from Ghantaghar to Bhatia Mor at Ghaziabad Elevated road between Ghantaghar to Bhatia More, Ghaziabad
20	Laboratory evaluation of Sulphur based Bitumen extender/modifier for hot mix asphalt
21	Evaluation of three roads (Krishnapatnam port (AP), Poranki (AP) & Hyderabad (TS) stabilized with cement and stabilizer
22	Assessment of Neoloy based Geocell System for application in Flexible Pavement and Development of Design Templates.
23	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction.
24	Conducting noise and vibration assessment study for Metro Lines 2A, 2B and 7 of Mumbai Metro (Elevated Corridor)(Phase/stage-1)
25	Study of Polyurethane with Mixture of Bitumen
26	Road Safety Audit of State Highways in the State of Bihar - Package 1
27	Road Safety Audit of State Highways in the State of Bihar- Package 3
28	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction
29	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction for JSW Steel
30	Design and Implementation of Soil Nailing for the Stabilisation of embankment for construction of Rail Underpass, Pragati Maidan, New Delhi
31	Third Party Technical Assistance in Construction of two bridges over Agra canal at Chainage Km 6.800 and Km 28.000 near Faridabad

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
32	Demonstration / implementation of Environmental Friendly Road Construction Technology as Pilot Project for Kolkata Municipal Corporation Implementation on given stretch (Phase-I).
33	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction for Rashtriya Ispat Nigam Limited.
34	Application of cold Bituminous Based Eco-Friendly Road Building Technology for the special Featured Himalayan Regions.
35	Technical Advice and Supervision for Strengthening of Noida-Greater Noida Expressway
36	Conducting Traffic Studies and Pollution exposure to quantify the Health Impact Assessment of Delhi Metro Line
37	Noise & Vibration Study for Delhi-Meerut RRTS Corridor For (Stage-I)
38	Road Safety Audit of Major District Roads, other District Roads and Village Roads in the State of Uttar Pradesh- Package 2
39	Road Safety Audit of Major District Roads, other District Roads and Village Roads in the State of Uttar Pradesh- Package 1
40	Road Safety Audit of Major District Roads, Other District Roads and Village Roads in the State of Uttar Pradesh- Package 3
41	Development of Airfield Pavement Management system (APMS) for Ten Airports of India
42	Road Safety Audit of different State Highway Projects road under UPSHA Varanasi-Shaktinagar Road (SH-5A) 113.440 Km Section from Km. 0.000 (Narayanpur of Mirzapur District to Km 113.440.000 at Hathinala
43	Development of Suitable cementitious material/grout for use in cement Grouted Bituminous Mix
44	Technical Advice and Supervision for Strengthening of Noida-Greater Noida Expressway
45	Comprehensive Mobility Plan (CMP) for Ahmedabad City
46	Acoustic and Light proofing study for lot 4/Package 4-Haryana-Rajasthan Border to kota as per WII Manual for Compliance of MoEFCC ToR point No.A (ii) for preparation of DPR for the project of development of Economic Corridors, Inter Corridors and Feeder
47	Acoustic and Light proofing study for Lot 4/Package 3-Vatdau-Ranmanpura-Patan dist. as per WII manual for compliance of, Inter Corridors and Feeder Route MoEFCC ToR point No.A (ii) for preparation of DPR for the project of development of Corridors
48	Development of Road Maintenance Management system (RMMS)for Public Works Department Govt. of Kerala
49	Investigation and Evaluation of Distressed Roads under South East Road 1 div. of Delhi PWD for Recommendations of Strengthening/Resurfacing/Rehabilitation through Hot Mix Asphalt
50	Technical Audit of Road Section from Km 181 to 206 of Andaman Trunk Road of NH-4
51	Impact on vibration levels on railway bridge between Andul-Sankrail during construction process
52	Impact of Traffic on Health amongst School Children in Delhi
53	Investigation, Analysis and Design of Remedial Measures of Landslides at Pambai Valley, Dharchulla, Uttarakhand (Phase I-Investigation, design and remedial measures for cable bailey bridge)
54	Performance study of a mix of jarofix-zinc slag as a retained fill in reinforced retaining wall
55	Structural Safety Audit of structures on 4-Lane NH connectivity to ICTT Vallarpadam, stretch between Kalamassery (chainage 0+000) to Vallarpadam (chainage Km 17.150) on NH 966A in the state of Kerala
56	Investigation for Rehabilitation/Strengthening of PWD roads under division East Road (M 212)/ Sub div I
57	Noise & Vibration study for Ahmedabad Metro Rail Project (Phase-I)
58	Traffic system analysis study for community centre, Alaknanda
59	Evaluation of Lakhnadone-Ghansore (Seoni-MP) Road for remedial measures for rehabilitation
60	External Technical Audit of 4-laning of Rewa-Katni-Jabalpur Section of NH-7 of Package-1 (from km 242.600 to km 311.000) and Package-2 (from km 311.000 to km 359.500 & km 378.500 to km 397.000)in the state of Madhya Pradesh under NHDP-IV on EPC Mode
61	Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects" for the Highway Engineers/Transportation consultants (5th Batch)
62	Design of Road Remediation and erosion Protection works for the reconstruction of flood damaged Shangumugham beach road, Thiruvananthapuram

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
63	Performance Evaluation of Process based Waste Plastic Incorporated Pavement Section with User Perspective (Year I)
64	Travelers trip patterns and its implications on intermediate public transport services in Imphal, India
65	Assessment and Evaluation of Prototype Samples of HSRP for Electric Vehicles for Type approval for M/s T.E.S.T. Security Licence Plates Pvt.Ltd.
66	Assessment and Evaluation of Prototype Samples of HSRP for Electric Vehicles for Type approval for M/s REAL MAZON INDIA LIMITED
67	Assessment and Evaluation of Prototype Samples of HSRP for Electric Vehicles for Type approval for M/s Shimnit Utsch India Pvt. Ltd.
68	Estimation of Modulus of Resilience by Volumetric/Performance properties of Asphalt mixes
69	Expert/Scientific opinion on Road Samples taken on 17.07.2018 by the Team of CRRI in Case No. SI-05/2018 CBI, Anti-Corruption Branch, New Delhi
70	Performance Evaluation of Bus Rapid Transit System (BRTS) in Bhopal
71	Traffic Management Plan for selected three (3)Corridors (total 15.47 KM) of NOIDA city, Uttar Pradesh
72	Assessment and Evaluation of Prototype Samples of HSRP for Rent a Cab/Motor Cycle scheme for Type approval for M/s Shimnit Utsch India Private Ltd.Mumbai.
73	Assessment and Evaluation Of Prototype Samples of HSRP for Rent a Cab/ Motor Cycle Scheme for Type approval for M/s REAL MAZON INDIA LIMITED.
74	Traffic Study for Intersections Improvement in Vadodara City
75	Third Party Quality Assurance/Check for Construction of Concrete Road in Temporary Ash Stock Yard of Ash Mound at NCPS, Dadri.
76	Design and Guidance for Ground Improvement Techniques for Construction of Rail Underpass at Chainage Km 33+585 between Julmi and Jhalawar City, Rajasthan
77	Road Safety Assessment and Geometric Design Improvements for Internal Roads of NTPC Rihand, Uttar Pradesh
78	Ground Granulated Blast Furnace Slag (GGBFS) as a soil stabilizer for Road construction
79	Design review of white topping pavement for construction of 2 roads under Hybrid Annuity a) North Ambazari Road MDR-53(2) b) Ambazari-Futala Road MDR-53 (4) in Nagpur City by Public Works Circle, Nagpur
80	Technical advice during construction of trial road with single use plastic and performance evaluation
81	Utilization of waste plastic for construction of bituminous roads in Arunachal Pradesh
82	Construction Supervision and performance study of Roadzyme stabilized Rural road
83	Evaluation of waste plastic for road construction
84	Feasibility study of utilization of dredged material from Banganga River catchment of Ramgarh dam
85	Assessment and Evaluation of Prototype Samples of HSRP for Rent a Cab/Motor Cycle scheme for Type approval for M/s T.E.S.T. Security Licence Plates Pvt. Ltd.
86	Investigation to study causes of failure of Flexible Pavements at IMT Faridabad and Suggesting suitable remedial measures.
87	Development of cementitious Material for Stabilization of Base course
88	Performance evaluation and comparison of SS bars and FBEC bars.
89	Vetting of Traffic Study and Analysis Report pertaining to Traffic Planning of Kathputli Colony near Shadipur Depot, New Delhi.
90	Vetting of design of flexible pavement using Zydex Nanotechnology based additives for rehabilitation and upgradation of package III (km 107 to 129) section NH 4, Andaman and Nicobar Island
91	Evaluation of Resilient Modulus and vetting of BC Gr I & II Mixes for Four laning of Aligarh-Kanpur section (Km 186.000 to 229.00) Package- II of NH-91 in the state of UP.on Hybride mode under Bharatmala Priyोजना
92	NDT and Material Characterisation and of the Span (P10-P11, Spine)of Rajiv Chowk-Sohna Road Flyover under construction under NHDP, Phase IV
93	Preparation of Integrated Transport Network Development Plan (I.T.N.D.P.)
94	Geometric Design of proposed Northern Peripheral Road and NH-24 junction near Dasna Village, Ghaziabad

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
95	Customised Online Training Programme on "Quality Assurance & Quality Control Aspects of Flexible Pavements"
96	Investigation of Major Bridges at Km 38+800 of 4-Laned Section of Tuticorin-Tirunelveli, NH-7A
97	Technical Advice and Vetting of Mix Design of CTB, CTSB, RAP and DBM for Aligarh-Kanpur Section
98	Online Customised Training Programme on Quality Control Aspects of Flexible and Rigid Pavement, for the officials of Syama Prasad Mookerjee Port, Kolkata, West Bengal
99	Design and Technical guidance for stabilization of soil during box jacking at Km 37/2-3 below the existing rail lines (Delhi-Rewari), Sector-9, Gurugram
100	Investigation Analysis and Design of Remedial Measures of Landslides at Pambai Valley, Dharchulla, Uttarakhand
101	Testing of VG Bitumen (2 Samples)
102	Assessment and Evaluation of Drawings and Prototype Samples of New Design of Snap Lock (Inner Outer) for fitment of HSRP for approval for M/s Agros Implex (I) Pvt. Ltd., New Delhi
103	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-14) of HSRP for M/s Real Mazon India Ltd.
104	Investigation to study causes of distress in runway at Coimbatore International airport and Suggest Suitable remedial measures
105	Third Party Technical Assistance in Construction of two bridges over Agra canal at Chainage Km 17.000 and Km 22.515 near Faridabad
106	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-7) of HSRP for M/s Agros Impex (I) Pvt. Ltd., New Delhi
107	Review of design and construction methodology of concrete pavement for Amrita Hospital campus, Faridabad
108	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP 18) of HSRP for M/s Shimnit Utsch India Pvt. Ltd. Mumbai
109	Design of Bank Protection work of Haraminalla at Indo-Pak Border, Bhuj, Gujarat
110	Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects" for the Highway Engineers /Transportation Consultants (6th Batch)
111	Condition Assessment, Structural Evaluation and suggestions for remedial measures of Ganga Bridge, at Varanasi
112	Two Day Online Skill Development Programme on "Road Safety Audit and other Road Safety Related Aspects" for the Engineers (Administrative Officers) of Public Works Department, Government of Chhattisgarh
113	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-30) of HSRP for M/s FTA HSRP Solutions Pvt. Ltd., Gandhinagar, Gujarat
114	Assessment and Evaluation of Manufacturing Process for Conformity of Production (7th COP) of HSRP for M/s T.E.S.T. Security License Plates Pvt. Ltd. Mumbai
115	Condition survey, Structural Evaluation and remedial measures of 10 nos of completed/ongoing bridge projects under Rural Development Department, Govt of Odisha
116	Mix Design for Field Trial of Rejupave Technology on Test section of GR Infra Project site at Varanasi
117	Online Customised Training Programme on "Design, Construction and Quality Control Aspect of Flexible and Rigid Pavements" for the engineers of PWD (R&B) of UT Ladakh
118	Delhi Cluster- "Delhi Research Implementation and Innovation" (DRIIV), Theme Solid Waste Management, WP-6 Use of construction & demolition wastes, incinerated residues in road construction
119	Condition survey, Structural Evaluation and remedial measures of 9 nos of completed/ongoing bridge projects under Rural Development Department, Govt of Odisha
120	Technical Inspection/Advice & Random Quality Checking at site of Strategic Importance Road along Indo-Nepal Border in Uttar Pradesh
121	Hill Road Widening using Light Weight Geofoam Block-An alternative to earth cutting and filling
122	Field performance evaluation of the test sections constructed with Zydex design and additives for sustainable highway development in India
123	A digital game (web/app based) to be prepared to convey the safety and sustainability aspects to children of younger age
124	Assessment and Evaluation of Drawing and Prototype Samples of New Designs.

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
125	Vetting of pavement design and investigation to study causes of damage to cementitious stabilized pavements and methodology for its repair
126	Evaluation and Design of Dense Bituminous Concrete Mix with Waste Plastic
127	Stability Analysis and Design of Embankment for Red Mud Disposal Pond
128	Pavement Analysis and suggestive course of action for frequent distress of flexible pavement of section Gundugolanu to Siddhantham of NH-16 in the state of Andhra Pradesh, Package-1 (72kms)
129	Pavement Analysis and suggestive course of action for frequent distress of flexible pavement of section Diwancheruvu to Siddhantham of NH-16 in the state of Andhra Pradesh, Package-2 (49 kms)
130	Designing and guiding the implementation of remedial measures to rehabilitate RE wall fascia blocks of the ROB constructed at km 67+090 (RHS), Madurai-kanyakumari Road
131	Capsule on Airfield Engineering
132	Bloomberg Initiative of Global Road Safety (BIGRS) Survey: Case study of Delhi
133	Online Customised Training Programme on various topics for the officials of NRIDA
134	Laboratory and Field Evaluation of the Bituminous Mix / Soil Stabilization using ANT Organic Stabilizer
135	Evaluation of Various Road under WR-24 and 25 Delhi PWD Division Sainik Vihar
136	Evaluation and Testing of Special Protection Group Drivers
137	Investigation and Evaluation of UP PWD Project Roads Funded by World Bank/ADB
138	Design of concrete pavement in South West Constituency Nagpur in Manish Nagar and Adjoining area (D.P. Roads)
139	Investigation to study distress in Pavement and suggest Remedial Measures thereof of Five Roads (2 Lane) in Amravati District under PWD Maharashtra
140	Investigations using NDT of the 2-Lane ROB in lieu of Level crossing No. 19-C- on Subhana Kosli Nahar Kanina Road near Kosli Railway Station on Hissar Bhatinda Railway Line Km 28/1/2 at Kosli in District Rewari for Suggesting Rehabilitation Measures
141	Feasibility study for the construction of Flyover/Underpass/Grade separator at three intersections in Surat City. Gujarat (Geotechnical engineering Part-B)
142	Feasibility study for the construction of Flyover/Underpass/Grade separator at three intersections in Surat city, Gujarat (Transportation Planning part A)
143	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP 19) of HSRP for M/s Shimnit Utsch India Pvt. Ltd. Mumbai
144	Utilization of Red Mud for Road and Structural fill applications
145	Evaluation of NH-10 (Delhi Rohtak Road) under Delhi PWD Division Sainik Vihar
146	Technical Audit of failure of segments of 4-Lane bridge over river Yamuna near village Manjhawali, Distt Faridabad
147	Technical Guidance for adoption of warm mix asphalt technology for resurfacing of Chatral-Kayavarohan Road in Vadodara
148	Utilization of Municipal Solid Wastes for Road and Structural fill applications
149	Recycling of Ghazipur Municipal Solid Wastes for Road Embankment and subgrade construction
150	Assessment and Evaluations of Drawings and Prototype Samples Related to High Security Number Plates (HSRP) 10 Similar projects anticipated with different agencies, sometimes amount may vary
151	Sustainable Integration Index (SII) for Public Transport Modes under Delhi Research Implementation and Innovation (DRIIV) of Delhi Science & Technology Cluster
152	Evaluation of Resilient Modulus and vetting of JMF DBM Mix for Gorakpur Link Expressway in the state of UP
153	Calibration of Automatic Road Unevenness Recorder (ARUR), Fifth wheel Bump Integrator (FWBI)/Car Axle Mounted Bump Integrator (CAMBI) and other Road Roughness Measuring Equipments, Number of equipments- 70** (approx.)
154	Assessment and Evaluation of COP-31 of HSRP for M/s FTA
155	CSIR-CRRI Regular Training Programme (Online & Offline) for the year 2021-2022
156	Failure analysis and Design of Remediation works for Silewani Ghati hill road
157	Feasibility Study (Lab & Field) of using Higher RAP content in Bituminous Pavements
158	Pavement Design for 60 mtr and 45 mtr ROW Roads of Village Pale and Thapkheda under Greater Noida Industrial Development Authority

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
159	Assessment and Evaluation of COP-8 of HSRP for M/s Agros Impex India Pvt Ltd.
160	Development of high strength and fast curing cementitious stabilized base layer
161	Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects" for the Highway Engineers / Transportation Consultants-7th Batch
162	Evaluation of interaction friction coefficient of Geostap and paralink / Paragrid reinforcement Embedded in soil through pullout tests - (Four laning of Solan - Kaithlighat section of NH-22 from km 106.00 to 129.050)
163	Assessment of Elastomeric Bearings of New Garia-Airport Corridor of Kolkata Metro Railway Line.
164	Condition Assessment, Structural Evaluation and Suggestion for remedial measures/strengthening of one RoB and one Bridge no. 27 at Rihand, STPP of NTPC Ltd. in the State of U.P.
165	Designing and guiding the soil improvement techniques for the construction of RUB at Km 914/18-20 on Kota-NAD section, Rajasthan
166	Noise-vibration control light proofing (privacy control) for wildlife and noise barrier design & preparation of guidelines for IRC to be adopted
167	Noise Mapping, Identification of Hot Spots and Mitigation Plan for Control of Noise Pollution for Jaipur, Jodhpur and Kota
168	Geometric Design/Improvement Plan of Karan Gate Roundabout on Mohan Nagar-Loni-Wajirabad Road, Ghaziabad U.P.
169	Design of Sheet Piles for Supporting the adjoining soil and building during construction of underpass portion of RUB at LC-26 crossing on Gurugram-Dhanwanpur Road, Gurugram
170	Strengthening of roads under Division East Road (M212) Sub Division II PWD Delhi
171	Creation of Bihar Road Research Institute (BRRI) at Mokama, a Centre of Excellence in Highway Sector for Bihar State Road Development Corporation (BSRDC), Road Construction Department, (RCD), Patna, Govt. of Bihar
172	Inspection of structures of 4-Laning of Porbander-Jetpur section on NH-8A from Km 001+960 to km 117+600 in the State of Gujarat
173	Strengthening of Roads under Road Maintenance Division South East Road-2 PWD Delhi
174	Investigation for Rehabilitation /Strengthening of PWD roads under PWD SER-2
175	Evaluation of connection strength between geogrid and gabion fascia
176	Conflict Assessment at the Diverging and Merging Area of a Toll Plaza by Surrogate Safety Measures under Mixed Traffic Conditions
177	Research study on performance of Kuna Bond CWP, Kuna Bipolar Corroguard and Kuna SIL 20
178	Investigation and design of remedial measures for stabilization of soil slope to protect the ballast retaining wall of Bridge No. 34 on Kota-Bina rail line near Kota.
179	Design of cementitious sub base and Design of Flexible Pavement
180	Evaluation of Duroflex Additive for application in Asphalt Mix
181	Regarding Crust Design of approach Road No. 20 at I.A. C.D.F., Aligarh
182	Investigation on three spans of collapsed bridge at Km 2+850 of NH-785 from Madurai to Chettikulam in the state of Tamil Nadu
183	Study on feasibility of Qz sand from Bikaner Mines as a partial replacement to crushed sand for use in structural and pavement quality concrete
184	Assessment and Evaluation of COP-15 of HSRP for M/s Real Mazon India Ltd.
185	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP20)of HSRP for M/s Shimnit India Pvt. Ltd. Mumbai
186	Evaluation of Ready to use patch mix for repair of patch and pothole (A product of M/s Vasudev Construction Co.)
187	Assessment and Evaluation of COP-32 of HSRP for M/s FTA
188	Vetting of Pavement Design of PR-9 Road Aerocity Roundabout to Kharar Banur National Highway, SAS Nagar Chandigarh
189	Pavement Design for 60 mtr approach road from sector KP-III to Hindon Bridge under Greater Noida Industrial Development Authority
190	Structural Safety Audit and Rehabilitation of SreeSankaracharya Bridge on Periyar River, Kalady and Edavannakkadavu Bridge, Malappuram in the State of Kerala

CSIR-CRRI
Ongoing Projects (8-Mar-2022)

SNO	title
191	Vetting of Pavement Design of HR-2 from Mullanpur/UT Boundry upto T junction of Kurali-Siswan Road in New Chandigarh SAS Nagar
192	Investigation to assess the stabilized base layer and to suggest remedial measures of PKg 3 and Pkg 4 of ATR road in A&N Island
193	Design of Stone Matrix Asphalt (SMA) with various additives: Hydrated lime, fly ash, plastic waste
194	Assessment of the effectiveness and durability of pre-formed pavement marking tapes applied to expressways
195	Feasibility study of red mud waste material in the construction of Road and as a structural fill
196	Structural Evaluation and remedial measures of the Bridges/Flyovers of National Highway from Raisinghnagar to Poogal (from design Ch.101.00 to Ch.263.460) under Phase-I of Bharatmala Pariyojna, along the International Border at Rajasthan.
197	Strengthening/Rehabilitation of Airport Parking Stand/Apron at Keshod Airport
198	Trial Section and Performance Evaluation of High Volume Traffic Pavement constructed with Ferro Chrome Slag as alternative to Natural Aggregate
199	Skill Development, Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects"for the Highway Engineers / Transportation Consultants (8th Batch)
200	Technical solution for making cross Drainage structure (stone/rockfill embankment) over part of Harami Nala, Gujarat
201	Pavement Design and Mix design of Cement-Treated Base layer for km 298.00 to 330.662 of NH-04-Andaman and Nicobar Islands
202	Review the design/drawings of slope stability of deep cut ground (with soil nails/normal slopes)from DFC Ch. 62+200 to DFC Ch.65+750 (tunnel Portal Starting point P1)for Dedicated Freight Corridor (DFC) track from Rewari to Dadri
203	Evaluation of Structural Health of Deck Slab of ROB at Nandnagri, Delhi
204	Instrumentation of ROB at Railway Km 139.4 on NH-148N in between Bandikui Junction and Biwai Junction, Rajasthan under Bharatmala Pariyojna (Pkg. 5, Delhi-Mumbai Expressway) of NHAI
205	Review of DPR's of Karnataka, Maharashtra, Manipur and Sikkim States for NRIDA
206	Detailed investigation of the structural distresses and suggestions for rehabilitation measures for Safdarjung Airport Aurobindo Road cum Rail Flyover under NDMC region, New Delhi.
207	Investigation of Pedestal at Pier P1 and Strengthening of distressed Pier and Pier Cap P107, P108, P109 at Dwarka Expressway
208	Assessment and Evaluation of COP-33 of HSRP for M/s FTA
209	Online Customised Training Programme on various topics for the officials of NRIDA
210	Design of bituminous mix for the resurfacing of runways at INS GARUDA, Naval Base Kochi, Kerala under Military Engineering Service.
211	Structural Evaluation of RouzaChuraha (Ghazipur)- Phephna (Balai) Section using FWD for Strengthening Recommendations (Package-2)
212	Study on Suitability of CGR bar for use in Concrete
213	Performance Evaluation of Hybrid PMB PG Grade binder
214	Investigation to study distress in Pavement and suggest Remedial Measures thereof of Karauli-Dholpur Section (2lane) of NH-11B Km. 83 to Km. 184 in Rajasthan
215	Evaluation of CTB samples of Huri axis road section in the state of Arunachal Pradesh (Km.53+00 to Km 71.300)
216	Review of DPR's of Maharashtra, Sikkim and Uttarakhand States for NRIDA
217	Evaluation of Installation damage of GeoStarps and Armalyk samples from a test section
218	Assessment & Evaluation of Manufacturing Processes for 8th COP of High Security Registration Plates-M/s T.E.S.T. Security License Plates Pvt. Ltd.

Projects Ongoing / underway
(2018-19, 2019-20, 2020-21)

sno	title
1	Assessment and Evaluation of Prototype Samples of HSRP for Rent a Cab/Motor Cycle scheme for Type approval for M/s T.E.S.T. Security Licence Plates Pvt. Ltd.
2	Vetting of design of flexible pavement using Zydex Nanotechnology based additives for rehabilitation and upgradation of package III (km 107 to 129) section NH 4, Andaman and Nicobar Island
3	Evaluation of Resilient Modulus and vetting of BC Gr I & II Mixes for Four laning of Aligarh-Kanpur section (Km 186.000 to 229.00) Package- II of NH-91 in the state of UP.on Hybride mode under Bharatmala Priyojna
4	Calibration of Automatic Road Unevenness Recorder (ARUR), Fifth wheel Bump Integrator (FWBI)/Car Axle Mounted Bump Integrator (CAMBI) and other Road Roughness Measuring Equipments Number of equipments-56**(approx.)
5	NDT and Material Characterisation and of the Span (P10-P11, Spine)of Rajiv Chowk-Sohna Road Flyover under construction under NHDP, Phase IV
6	Inspection of Pot-PTFE Bearings and Pin/Metallic Bearings of ROB (1X18.527+1X24.0+1X18.527m) in Virbhadra-New Rishikesh-Shivpuri Section in the state of Uttarakhand.
7	Preparation of Integrated Transport Network Development Plan (I.T.N.D.P.)
8	Geometric Design of proposed Northern Peripheral Road and NH-24 junction near Dasna Village, Ghaziabad
9	Customised Online Training Programme on "Quality Assurance & Quality Control Aspects of Flexible Pavements"
10	Assessment and Evaluation of Drawings and Prototype Samples of New Design of Snap Lock (Inner Outer) for fitment of HSRP for approval for M/s Agros Implex (I) Pvt. Ltd., New Delhi
11	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-14) of HSRP for M/s Real Mazon India Ltd.
12	Design of Cold recycle led mix using foamed bitumen for NH 66 Km 363/000 to Km380/000 in Kerala
13	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP 18)of HSRP for M/s Shimnit Utsch India Pvt. Ltd. Mumbai
14	Investigation to study causes of distress in runway at Coimbatore International airport and Suggest Suitable remedial measures
15	Design of Bank Protection work of Haraminalla at Indo-Pak Border, Bhuj, Gujarat
16	Technical advice during construction of trial road with single use plastic and performance evaluation
17	Design of Short Paneled Concrete Pavement for the Roads in Sector J of Basant Kunj at Lucknow
18	Design of Concrete Mix for M 25, M 30 & M 35 grade for construction of 564 MLD Waste Water
19	Investigation to study causes of failure of Flexible Pavements at IMT Faridabad and Suggesting suitable remedial measures.
20	Assessment and Evaluation of Manufacturing Process for Conformity of Production (28) of HSRP for M/s FTA HSRP Solutions Pvt. Ltd. Gandhinagar, Gujarat
21	Design and Technical guidance for stabilization of soil during box jacking at Km 37/2-3 below the existing rail lines (Delhi-Rewari), Sector-9, Gurugram
22	Investigation of Major Bridges at Km 38+800 of 4-Laned Section of Tuticorin-Tirunelveli, NH-7A
23	Third Party Technical Assistance in Construction of two bridges over Agra canal at Chainage Km 17.000 and Km 22.515 near Faridabad
24	Strengthening of Disused Canal Road under Division East Road (M-212)/Sub Div.
25	Ground Granulated Blast Furnace Slag (GGBFS) as a soil stabilizer for Road construction
26	Evaluation of waste plastic for road construction
27	Feasibility study of utilization of dredged material from Banganga River catchment of Ramgarh dam
28	Technical Advice and Vetting of Mix Design of CTB, CTSB, RAP and DBM for Aligarh-Kanpur Section
29	Condition Assessment, Structural Evaluation and suggestions for remedial measures of Ganga Bridge, at Varanasi
30	Development of cementitious Material for Stabilization of Base course
31	Investigation Analysis and Design of Remedial Measures of Landslides at Pambai Valley, Dharchulla, Uttarakhand
32	Utilization of waste plastic for construction of bituminous roads in Arunachal Pradesh
33	Vetting of Traffic Study and Analysis Report pertaining to Traffic Planning of Kathputli Colony near Shadipur Depot, New Delhi.

Projects Ongoing / underway
(2018-19, 2019-20, 2020-21)

34	Construction Supervision and performance study of Roadzyme stabilized Rural road
35	Evaluation of Installation damage of GeoStarp from a test section
36	Performance evaluation and comparison of SS bars and FBEC bars.
37	Testing of VG Bitumen (2 Samples)
38	Assessment and Evaluation of Manufacturing Process for Conformity of Production (29) of HSRP for M/s FTA HSRP Solutions Pvt. Ltd., Gandhinagar, Gujarat
39	Design for Cement-Chemical Stabilization for the Project T-02 to Thekrejuma via Sirhima in the state of Nagaland
40	Assessment of Elastomeric Bridge Bearings of Northern Railway
41	Assessment of Elastomeric Bridge Bearings
42	Design review of white topping pavement for construction of 2 roads under Hybrid Annuity a) North Ambazari Road MDR-53(2) b) Ambazari-Futala Road MDR-53 (4) in Nagpur City by Public Works Circle, Nagpur
43	Strengthening of Pusta Road and Geeta Colony Yamuna Bridge road under Division East Road (M-212)/Sub.Div-I
44	Structural Safety Audit (Phase-1)of selected spans through NDT and suggestion for strengthening measures of elevated section of Gurugram-Sohna NH under NHDP-IV
45	Online Customised Training Programme on Quality Control Aspects of Flexible and Rigid Pavement, for the officials of Syama Prasad Mookerjee Port, Kolkata, West Bengal
46	Design of Rigid Pavement for the Rehabilitation of Distressed Pavement at Transport Nagar Yojna, Lucknow
47	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-7)of HSRP for M/s Agros Impex (I)Pvt. Ltd., New Delhi
48	Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects"for the Highway Engineers /Transportation Consultants (6th Batch)
49	Assessment and evaluation of Manufacturing Process for Conformity of Production(COP 9/17)of HSRP for M/s Shimnit Utsch India Private Ltd. Mumbai
50	Assessment and Evaluation of Manufacturing Process for 13th Conformity of Production (COP-13) of HSRP for M/s REAL MAZON INDIA LIMITED.
51	Assessment and Evaluation of Prototype Samples of HSRP for Rent a Cab/Motor Cycle scheme for Type approval for M/s Shimnit Utsch India Private Ltd.Mumbai.
52	Road Safety Audit of different State Highway Projects road under UPSHA Bareilly-Almora (SH-37) Section from KM.0.000 of Bareilly District to Km 54.000 at Uttarakhand Border.
53	Road Safety Audit of different State Highway Projects road under UPSHA Varanasi-Shaktinagar Road (SH-5A) 113.440 Km Section from Km. 0.000 (Narayanpur of Mirzapur District to Km 113.440.000 at Hathinala
54	Calibration of Automatic Road Unevenness Recorder (ARUR)No. Model No.G04-062.1 SN. 190517.12 using Dipstick at a speed of 32+-1km/hrs
55	Development of Suitable cementitious material/grout for use in cement Grouted Bituminous Mix
56	Development of hot mix recycling agent
57	Technical Advice and Supervision for Strengthening of Noida-Greater Noida Expressway
58	Repair and rehabilitation of airfield pavements at NSCBI Airport Kolkata
59	Road Inventory and Pavement Condition Survey for Asset Management of Odisha Rural Roads Network
60	Comprehensive Mobility Plan (CMP) for Ahmedabad City
61	Acoustic and Light proofing study for lot 4/Package 4-Haryana-Rajasthan Border to kota as per WII Manual for Compliance of MoEFCC ToR point No.A (ii) for preparation of DPR for the project of development of Economic Corridors, Inter Corridors and Feeder
62	Acoustic and Light proofing study for Lot 4/Package 3-Vatdau-Ranmanpura-Patan dist. as per WII manual for compliance of, Inter Corridors and Feeder Route MoEFCC ToR point No.A (ii) for preparation of DPR for the project of development of Corridors
63	Development of Road Maintenance Management system (RMMS)for Public Works Department Govt. of Kerala
64	Investigation and Evaluation of Distressed Roads under South East Road 1 div. of Delhi PWD for Recommendations of Strengthening/Resurfacing/Rehabilitation through Hot Mix Asphalt
65	Technical Audit of Road Section from Km 181 to 206 of Andaman Trunk Road of NH-4

Projects Ongoing / underway
(2018-19, 2019-20, 2020-21)

66	Noise & Vibration Analysis in the Metro Viaduct with actual running of Rolling Stock
67	Impact on vibration levels on railway bridge between Andul-Sankrail during construction process
68	Impact of Traffic on Health amongst School Children in Delhi
69	Investigation, Analysis and Design of Remedial Measures of Landslides at Pambai Valley, Dharchulla, Uttarakhand (Phase I- Investigation, design and remedial measures for cable bailey bridge)
70	Assessment and Evaluation of Manufacturing Process for 13th Conformity of Production (27) of HSRP for M/s FTA HSRP Solutions Private Limited, Gandhinagar, Gujarat
71	Assessment and Evaluation Of Prototype Samples of HSRP for Rent a Cab/ Motor Cycle Scheme for Type approval for M/s REAL MAZON INDIA LIMITED.
72	Traffic Study for Intersections Improvement in Vadodara City
73	Development of Airfield Pavement Management system (APMS) for Ten Airports of India
74	Evaluation of AggreBind (Styrene Polymer compound) Stabilizer in soil stabilization for road construction
75	CSIR-CRRI Regular Training Programme (Online & Offline) for the year 2020-21
76	Assessment and Evaluation of Manufacturing Process for Conformity of Production (25 & 26th COP) of HSRP for M/s FTA HSRP Solution Pvt. Ltd, Gandhinagar, Gujarat
77	Feasibility study for use of Bottom Residue to mix with bitumen/bituminous mixes/RAP material etc., through laboratory evaluation
78	Performance Evaluation of Process based Waste Plastic Incorporated Pavement Section with User Perspective (Year I)
79	Customized Training Programme on "Landslide Mitigation and Detailed Project Report (DPR) Preparation", for the Officers of NDMA at CSIR-CRRI
80	Expert/Scientific Opinion on Road Samples taken on 17.07.2018 by the team of CRRI in case no. SI-03/2018, No. 8758 CBI, Anti-Corruption Branch, New Delhi
81	Travelers trip patterns and its implications on intermediate public transport services in Imphal, India
82	Assessment and Evaluation of Prototype Samples of HSRP for Electric Vehicles for Type approval for M/s T.E.S.T. Security Licence Plates Pvt.Ltd.
83	Performance Evaluation of Bus Rapid Transit System (BRTS) in Bhopal
84	Traffic Management Plan for selected three (3) Corridors (total 15.47 KM) of NOIDA city, Uttar Pradesh
85	Assessment and Evaluation of Prototype Samples of HSRP for Electric Vehicles for Type approval for M/s REAL MAZON INDIA LIMITED
86	Assessment and Evaluation of Prototype Samples of HSRP for Electric Vehicles for Type approval for M/s Shimnit Utsch India Pvt. Ltd.
87	Estimation of Modulus of Resilience by Volumetric/Performance properties of Asphalt mixes
88	Expert/Scientific opinion on Road Samples taken on 17.07.2018 by the Team of CRRI in Case No. SI-05/2018 CBI, Anti-Corruption Branch, New Delhi
89	Performance study of a mix of jarofix-zinc slag as a retained fill in reinforced retaining wall
90	Feasibility study of zinc tailing waste Material in the construction of Road
91	Pavement design and mix design using cold in place recycling with foamed bitumen for beawar Pali project of LnT IDPL in Rajasthan
92	Investigation for Rehabilitation/Strengthening of PWD roads under PWD East Road Division (M-212) of sub div II
93	Structural Safety Audit of structures on 4-Lane NH connectivity to ICTT Vallarpadam, stretch between Kalamassery (chainage 0+000) to Vallarpadam (chainage Km 17.150) on NH 966A in the state of Kerala
94	Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-6) of HSRP for M/s Agros Implex (I) Pvt. Ltd., New Delhi
95	Investigation for Rehabilitation/Strengthening of PWD roads under division East Road (M 212)/ Sub div I
96	Traffic system analysis study for community centre, Alaknanda
97	Noise & Vibration study for Ahmedabad Metro Rail Project (Phase-I)
98	Assessment and Evaluation of Manufacturing Process for Conformity of Production (21 & 22th COP) of HSRP for M/s FTA HSRP Solutions Pvt. Ltd., Gandhinagar, Gujarat

Projects Ongoing / underway
(2018-19, 2019-20, 2020-21)

99	Assessment and Evaluation of Manufacturing Process for 12th Conformity of Production (COP-12) of HSRP for M/s REAL MAZON INDIA LIMITED
100	Assessment and Evaluation of Manufacturing Process for Conformity of Production (7th COP) of HSRP for M/s Shimnit Utsch India Pvt. Ltd. Mumbai
101	Study and Determination of Thickness and composition of materials for pavement layers in High Altitude/snow bound Area
102	Field Investigation and Experimentation on Prevention of Premature Longitudinal Cracking in Concrete Pavement Highways
103	Third Party Quality Assurance/Check for Construction of Concrete Road in Temporary Ash Stock Yard of Ash Mound at NCPS, Dadri.
104	Evaluation of Lakhnadone-Ghansore (Seoni-MP) Road for remedial measures for rehabilitation
105	Investigation of four lane road from Yamuna Authority area up to Gautam Budh University, Greater Noida
106	Assessment and Evaluation of Manufacturing Process for Conformity of Production (8th COP) of HSRP for M/s Shimnit Utsch India Pvt Ltd. Mumbai
107	Assessment and Evaluation of Manufacturing Process for Conformity of Production (23 & 24th COP) of HSRP for M/s FTA HSRP Solutions Pvt. Ltd., Gandhinagar, Gujarat
108	External Technical Audit of 4-laning of Rewa-Katni-Jabalpur Section of NH-7 of Package-1 (from km 242.600 to km 311.000) and Package-2 (from km 311.000 to km 359.500 & km 378.500 to km 397.000)in the state of Madhya Pradesh under NHDP-IV on EPC Mode
109	Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects" for the Highway Engineers/Transportation consultants (5th Batch)
110	Design of Road Remediation and erosion Protection works for the reconstruction of flood damaged Shangumugham beach road, Thiruvananthapuram
111	Investigation and the design of Landslide Remedial measures in Nilambur-Gudalloor Road, Kerala
112	Assessment and Evaluation of Manufacturing Process for Conformity of Production (6th COP) of HSRP for M/s T.E.S.T. Security License Plates Pvt. Ltd., Mumbai
113	Investigation of Jodhpur Pokaran Section of NH 114 to ascertain the causes of defects and needed remedial measures
114	Road Safety Assessment and Geometric Design Improvements for Internal Roads of NTPC Rihand, Uttar Pradesh
115	Evaluation and Testing of Special Protection Group Drivers
116	Development of Resilient Modulus (RM) Testing System
117	Development of Remotely Piloted Arial Vehicle Bridge Monitoring System (RPAV-BMS)
118	Road Safety Audit of State Highways in the State of Bihar - Package 2
119	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction for JSW Steel
120	Study of Polyurethane with Mixture of Bitumen
121	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction
122	Design and Implementation of Soil Nailing for the Stabilisation of embankment for construction of Rail Underpass, Pragati Maidan, New Delhi
123	Third Party Technical Assistance in Construction of two bridges over Agra canal at Chainage Km 6.800 and Km 28.000 near Faridabad
124	Study on Decay in Modulus of Stabilized Aggregate in Flexible Pavement
125	Demonstration / implementation of Environmental Friendly Road Construction Technology as Pilot Project for Kolkata Municipal Corporation Implementation on given stretch (Phase-I).
126	Development of Design Guidelines and Specification for utilization of steel slag in Road construction for M/s Tata Steel.
127	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction for Rashtriya Ispat Nigam Limited.
128	Application of cold Bituminous Based Eco-Friendly Road Building Technology for the special Featured Himalayan Regions.
129	Technical Advice and Supervision for Strengthening of Noida-Greater Noida Expressway

Projects Ongoing / underway
(2018-19, 2019-20, 2020-21)

130	Conducting Traffic Studies and Pollution exposure to quantify the Health Impact Assessment of Delhi Metro Line
131	Noise & Vibration Study for Delhi-Meerut RRTS Corridor For (Stage-I)
132	Development of Methodology for Traffic Circulation Plans around Metro Stations and their Impact Quantification in terms of Traffic Delay, Level of Service, Fuel Consumption & Vehicular Emissions using Microscopic Simulation.
133	Road Safety Audit of Major District Roads, other District Roads and Village Roads in the State of Uttar Pradesh-Package 2
134	Road Safety Audit of Major District Roads, Other District Roads and Village Roads in the State of Uttar Pradesh-Package 3
135	Road Safety Audit of Major District Roads, other District Roads and Village Roads in the State of Uttar Pradesh-Package 1
136	Research Scheme to study the corrosion of various reinforcement bar materials / structural steel including anti-corrosion coatings concrete treated with surface coating under different environment exposure conditions.
137	Elevated road between Ghantaghar to Bhatia More, Ghaziabad
138	Mix design for CTSB and RAP for widening of NH-4 from single lane to 2 lanes in Andaman & Nicobar Islands (Pkg-2, Pkg-3 and Pkg-4) and recommendation on feasible pavement design.
139	Laboratory evaluation of Sulphur based Bitumen extender/modifier for hot mix asphalt
140	Evaluation of three roads (Krishnapatnam port (AP), Poranki (AP) & Hyderabad (TS) stabilized with cement and stabilroad stabilizer
141	Assessment of Neoloy based Geocell System for application in Flexible Pavement and Development of Design Templates.
142	Development of Design Guidelines and Specification for Utilization of Steel Slag in Road Construction.
143	Development and Testing of Prototype Pothole Repair Machine
144	Expert advice, guidance & assessment of overall quality of Cement concrete roads of Phase-II (59) roads in Nagpur City.
145	Conducting noise and vibration assessment study for Metro Lines 2A, 2B and 7 of Mumbai Metro (Elevated Corridor)(Phase/stage-1)
146	Road Safety Audit of State Highways in the State of Bihar - Package 1
147	Road Safety Audit of State Highways in the State of Bihar- Package 3
148	Safe Road Connectivity for Tripura State of North East Region of India
149	Sustainable Road Pavements in High Altitude Regions Using Geosynthetics
150	Technical Evaluation of 'Power Soil'soil stabiliser
151	Inspection during strengthening work on Farakka Barrage, West Bengal
152	Evaluation of Old G.T Road from Old Yamuna Bridge to Dhramapura T-Point both Side (0.900 KM).
153	Feasibility study of FF Slag Waste material in the construction of Road
154	Performance Evaluation of Embedded HILTI Anchors in Tension and shear under the Externally Applied Static Loading
155	Feasibility Study on "Utilization of Ferrochrome Slag" in Road Making (Phase-II)
156	Vibration Investigation & Mitigation Design for Colaba-Bandra-SEEPZ Corridor, Mumbai
157	Improvement of Inner Ring Road in Nagpur City to 4/6/8 Lane Divided Carriageway SH-340
158	Development of Comprehensive Mobility (Traffic and Transportation System) Plan (CMP) for Ghaziabad City.
159	Assessment of Odisha Road Network Using Modern Data Collection Techniques Such on Automated Road Survey System and Falling Weight Deflectometer for Asset Management of Odisha PWD Roads
160	To Examine the Route Survey Report from Mundra Port to GSPC PIPAVAV Power project site submitted by SCI for BHEL to render technical opinion regarding the adequacy of the route survey
161	Quality Supervision of Construction of Inner Ring Road (2nd Phase) from Fatehabad Road to Deori road, Agra
162	Development of Ambient Temperature Bituminous Mix Technology (ATMT) for Construction of Flexible Pavement
163	Design of Job mix for micro surfacing work for various PWD Roads under Chief Engineer North (M) of Delhi PWD (Five Packages)
164	Quality Assurance of Construction of Structures of Inner Ring Road (Phase-2) from Kuberpur to Fatehabad Road, Agra

Projects Ongoing / underway
(2018-19, 2019-20, 2020-21)

165	Quality Supervision of Construction of Inner Ring Road (Phase-II) from Fatehabad Road to Deori Road, Agra
166	Design, Supervision and Pavement performance evaluation of road constructed by using phosphogypsum.
167	Periodic Assessment of Riding Quality (Roughness Index) on DND Flyway & Mayur Vihar Link Road in Delhi / Noida
168	Project Monitoring and Quality Assurance of Construction of a Three Lane Grade Separator on NH-58 near Meerut Tiraha, Ghaziabad (U.P.)
169	Technological Solutions for Enabling Smart Infrastructure: Integrating Piezoelectric Energy Harvesting and structural Health Monitoring in a Smart City
170	Collection and analysis of bridge condition & inventory data by MBIU or any other equipment for the purpose of the major/minor bridges on all NHs including those with NHAI for a period of three years
171	Consultancy services for conducting RSA for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis for PPD projects on DBFO basis
172	Creation of complete range of independent Testing Facilities for Expansion Joints at CRRRI, New Delhi