

CSIR – CRII

Projects Underway / undertaken during 2024-25

<ul style="list-style-type: none">• Rehabilitation/Strengthening of Noida Link Road by cold Milling and Recycling process under Division East Road (M-212)/Sub Division East Road-IV through Falling Weight Deflectometer (FWD)
<ul style="list-style-type: none">• Assessment and Evaluation of COP-20 of HSRP for M/s Real Mazon India Ltd.
<ul style="list-style-type: none">• Vetting of Pavement Design for Construction of a 4-Lane Greenfield North-East side Gorakhpur bypass(26.616km) starting from NH-29E(Chainage 83+308)and ending at NH-28(chainage 285+100)in the state of Uttar Pradesh under Bharatmala Pariyojna under EPC mode
<ul style="list-style-type: none">• Design and technical solution for construction of new link road for connecting road from Bela BOP to BOP Silasichi BP No. 986 in AOR of 21 Bn, Indo-Pak Border, Kutchh-Gujarat
<ul style="list-style-type: none">• Checking adequacy of existing through type steel truss bridge over river Alaknanda on Hat Kaudia road, Pipalkoti, District Chamoli, Uttarakhand
<ul style="list-style-type: none">• Failure investigation of Sector Recreational Green-V Road (60-meter-wide)for providing the remedial measures
<ul style="list-style-type: none">• Assessment and Evaluation of COP-44 of HSRP for M/s FTA HSRP Solutions Pvt. Ltd.
<ul style="list-style-type: none">• Visual Inspection of Second Vivekananda Bridge and Approaches on Hugli River, Kolkata
<ul style="list-style-type: none">• 15 day Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects" for the Highway Engineers/Transportation Consultants-14th Batch
<ul style="list-style-type: none">• Strengthening of Roads by cold Milling and Recycling process under Division East Road (M-212)/Sub Div-1 (Vikas Marg Road No. 75A & 75B through Falling Weight Deflectometer (FWD) & Traffic Survey
<ul style="list-style-type: none">• Structural Health Assessment of Existing Major Bridge of about 85m (7mx 12nos) at Km 63+604, part of 4 laning of NH-353B from Govindpur (MH/TG Border) Design Km 32.910 to Rajura Border, Design ch 89.090 in the state of Maharashtra
<ul style="list-style-type: none">• Evaluation of Varanasi ring road (phase-II,Pkg-I) design chainage Km.00 to Km.16.40 in the State of UP under NHDP Phase-VII on EPC mode
<ul style="list-style-type: none">• Pavement Evaluation of Road Connecting Surajpur Entry Point to Kasna T-Point and suggesting Remedial measures
<ul style="list-style-type: none">• Development of Performance Prediction Models for Geosynthetic-Reinforced Pavements
<ul style="list-style-type: none">• Customized Training Programme on "Design, Construction and Quality Control in Flexible & Rigid Pavements" for the MPPWD Engineers
<ul style="list-style-type: none">• Pavement Evaluation for rutting failure of Chittorgarh-Udaipur section of NH-48 in the state of Rajasthan (Flexible Pavement: 66 km)
<ul style="list-style-type: none">• Noise and Vibration Analysis for Underground section of East West Metro Corridor, Kolkata with actual running of Rolling Stock, KMRCL
<ul style="list-style-type: none">• Proof Checking of Design of 3-Cell PSC box girder Superstructure
<ul style="list-style-type: none">• Structural Safety Audit of ROB at ch. 44.200 in Jhajjar-Charkhi Dadri-Loharu Section on NH-334.
<ul style="list-style-type: none">• Bituminous concrete mix design using RAP for Anandapuram-Visakhapatnam-ANKAPALLI Section from KM 689+980 to 741+256 and Ranasthalam town portion from KM630+120 to 634+120 of NH-16 in the state of Andhra Pradesh
<ul style="list-style-type: none">• Axle load survey for Varanasi Ring Road (Phase-11, Package I) design chainage km 0.0 km to 16.40 km in the state of Uttar Pradesh under NHDP Phase VII on EPC Roads
<ul style="list-style-type: none">• Development of Bio binders from Agricultural Waste for Utilization in Bituminous Road Construction

<ul style="list-style-type: none"> • Study for Rehabilitation measures for distressed pavement from Bandarpada to Malimunda Stadium road Jarsuguda Odisha
<ul style="list-style-type: none"> • Failure Investigation of Bhopal-Biaora Section of NH-12 from Mubarakhpur to Biaora Package-II (Km 324.000 to Km 423.00) in the state of Madhya Pradesh and its remedial measures
<ul style="list-style-type: none"> • Checking of Design and Drawings of Two ROB's on Fatehpur Bypass and Lalganj bypass of Raebareli-Banda Section of NH-232 From Km. 152.533 to 285.818 in the State of UP
<ul style="list-style-type: none"> • Technical evaluation of Pavement Classification Number (PCN) and strengthening of HAL Airport (Runway, Taxiway and Aprons), Bengaluru
<ul style="list-style-type: none"> • Detailed Analysis of Yamuna Bridge situated at Km 62.740 of NH-86 in District Hamirpur and Ganga Bridge at Km 76.563 of NH-27 in District Kanpur Nagar
<ul style="list-style-type: none"> • Customized Training Programme on Pavement Evaluation Techniques and their Application for Maintenance & Rehabilitation for the officials of GNIDA
<ul style="list-style-type: none"> • Structural Safety Audit of major and minor bridges (total 5 nos) in Barhi-Hazaribagh Road Project NH-33
<ul style="list-style-type: none"> • Condition Assessment and Suggestions for repair and rehabilitation measures of two bridges in Bihar section of Varanasi-Aurangabad Tollway Pvt. Ltd. (NH-2 Project) (Sone bridge structural safety Audit and Karmanasa Bridge only Visual Inspection)
<ul style="list-style-type: none"> • Mix Design of Modified Mix Seal Surfacing MSS+ for renewal work under Rural Engineering Deptt. PIU Gonda
<ul style="list-style-type: none"> • Review of Designs and Drawings of Reinforced Soil Structure (RSS) for the Rehabilitation and Upgradation of existing Bihpur section of NH-106 from Km 106+000 to Km 136+000
<ul style="list-style-type: none"> • Evaluation of LCR/MIF Value of CTMPG504 biaxial geogrid
<ul style="list-style-type: none"> • Characteristic Analysis of different properties of concrete by using Crystalline Waterproofing Admixture "Sika control-200 WTPIN" used as Bridge deck waterproofing
<ul style="list-style-type: none"> • Structural audit of Intersections, minor bridges and underpasses at different locations of Yamuna Expressway (from Greater Noida to Agra, 170 Km approx.) in Uttar Pradesh
<ul style="list-style-type: none"> • Investigations to study causes of distress/rutting on BC surface for Kurud Megha Magarlod Amlidin Dhourabhatha Khisora Panduka Road under ADB Loan 3795-IND, Total Length 31.88 km.
<ul style="list-style-type: none"> • Evaluation of FibroCel Pellets for application in Stone Matrix Asphalt (SMA)
<ul style="list-style-type: none"> • Design of Rehabilitation Measures for Improvement of Roads under SRD Project Division-II, PWD Delhi
<ul style="list-style-type: none"> • Technical Analysis of Distress observed on Rigid Portion of the Runway & Allied Assets (Dispersal and links) at Air Force Station Hasimara (WB)
<ul style="list-style-type: none"> • Investigations and Suggestion for Rehabilitation of distressed Pier caps (8 Nos) of the Elevated section of 4-Laning of Ratapani (AUP Structure at km 15+260) from km 8.300 to 20.680 of obedullaganj-Itarsi section of NH-46 (Old-NH-69) in the State of M.P.
<ul style="list-style-type: none"> • Pavement Design for Widening of Existing Two-Lane Road along Agra Canal in Greater Faridabad (ch10.150 to 30.200)
<ul style="list-style-type: none"> • Pavement Design of 130 m Road of Industrial Sector Ecotech-9 under GNIDA
<ul style="list-style-type: none"> • Mix Design of CGBM as wearing course & Technical advice on two roads of FDR executed on PMGSY roads (Package UP4291, 7Km, Length and UP4290, 5Km, Length) in District Kaushambi Uttar Pradesh
<ul style="list-style-type: none"> • Use of recycled plastic in DBM and BC mix design and technical advisory for implementation of waste plastic technology.
<ul style="list-style-type: none"> • Design of Job Mix for FDR for C&M of Tizit to Oting Road under PMGYS-III Batch-I
<ul style="list-style-type: none"> • Structural Evaluation of Airfield Pavement Network of Aizawl Airport using Heavy Weight Deflectometer

<ul style="list-style-type: none"> • Development of Steel Slag Road at SENARA logistics industrial park at Mappedu, Sriperambadur, Chennai
<ul style="list-style-type: none"> • Evaluation of Additive PRE-I-16 Ionic Stabilizer for soil-stabilization for Full Depth Reclamation (FDR)
<ul style="list-style-type: none"> • Comprehensive Mobility Plan of Bharatpur City, Rajasthan
<ul style="list-style-type: none"> • Structural Safety Audit of major Bridge over river Ganga River at Gegaso Village for Raebareli-Banda Section of NH-232 at Km 194 +850 in the State of Uttar Pradesh
<ul style="list-style-type: none"> • Assessment and Evaluation of COP-43 of HSRP for M/s FTA HSRP Solutions Pvt. Ltd.
<ul style="list-style-type: none"> • Assessment of Mechanical Properties of Threaded Steel Anchor Bolt of Grade 10.9 as per IS 1367-3, 2002.
<ul style="list-style-type: none"> • Mix Design and Technical Guidance for laying of CGBM Layer as Wearing Course on Phullanwal to Jain Mandir Road, GLADA, Ludhiana
<ul style="list-style-type: none"> • Structural Safety Audit of 72 M Span Bridge over river Baigul at Khatima, Uttarakhand
<ul style="list-style-type: none"> • Design for UPSIDA roads of Industrial area-Hardoi and Rae Bareli
<ul style="list-style-type: none"> • Performance Evaluation of Jaipur Bus Rapid Transport System (BRT)
<ul style="list-style-type: none"> • Development of Fiber Pellet for SMA Application
<ul style="list-style-type: none"> • Technical /Quality Audit of Rigid Pavement in package 2 of UER-II (NH-344M & NH-344N) and package 2 of Dwarka Expressway (NH-248BB)
<ul style="list-style-type: none"> • Structural Audit of the Six lane Access Controlled Expressway Starting from Km. 0+000 (Akshardham, New Delhi) to Km 31.6 (EPE Junction in UP) being developed as Economic Corridor, Ph 1 (Expressway) on EPC mode under Bharatmala Pariyojana by NHAI (MoRTH)
<ul style="list-style-type: none"> • Investigation Design and Guidance of Remedial Measures of RE walls along Six Lane Carriageway near Rau Circle at KM 12+600, Indore, MP
<ul style="list-style-type: none"> • Evaluation of Gurgaon-Kotputli Jaipur Section of NH-48 from Km 42.700 to Km 107.100 (RHS) in the state of Haryana
<ul style="list-style-type: none"> • Development of Customized Steel Slag Valorisation process for Technoeconomic Conversion of LD/BOF and EAF Steel Slag as Processed Steel Slag Aggregates of JSPL Raigarh and Angul Steel Plants and Construction of Steel Slag Roads
<ul style="list-style-type: none"> • Structural Safety Audit of 110 M Span T-beam Bridge over river Kailash at Old NH-125 Sitraganj Sisaikheda Marg
<ul style="list-style-type: none"> • Strengthening of main carriageway of 80 mm wide Road Kasana to Bhat Rotary
<ul style="list-style-type: none"> • Mix Design of BC and FDR layer for road (i) Upgradation of Rampur Ghat Nawada to Khoranwala km 0/000 to 5/400 (Package No. HP-10-285)
<ul style="list-style-type: none"> • Vetting of Pavement Design for Construction of Greenfield Mulapeta Port on an EPC Basis- Pavement Design and Utilization of Commercial Stabilizer (CCS) StabilRoad for Cementitious Bases in Internal and External Roads, Mulapeta Port, Andhra Pradesh
<ul style="list-style-type: none"> • Evaluation of Distresses and suggestion for remedial measures of Hero Honda chowk Flyover and Underpass (3+3) at km 36.175 on Delhi-Gurugram Section of National Highway 8 in the State of Haryana
<ul style="list-style-type: none"> • Structural Audit of the Elevated Portion of the Six lane Access Controlled Highway from DND Maharani Bagh to Junction with Jaitpur-Pushta Road section of NH-148NA (Design Ch 0+000 to Ch 9+00) in NCT on Hybrid Annuity Mode under Bharatmala Pariyojana.
<ul style="list-style-type: none"> • Traffic and Pavement Studies for Identified Corridor Improvements in Kota City, Rajasthan
<ul style="list-style-type: none"> • Design of Cement concrete road on Industrial area (Furnace Road)in Village Kheda under Hapur-Pilkhuwa Development Authority development Area
<ul style="list-style-type: none"> • Quality Audit of NH-709A Garhmukteshwar Chainage-83+200 of NH-24 to Meerut (chainage 9+860 of NH-235) including connector to NH-119 Package XII

<ul style="list-style-type: none"> • Evaluation of NDMC Roads for Suggesting Recommendations for Suitable Maintenance and Rehabilitation Measures and Third Party Construction Quality Supervision Works under the Jurisdiction of SE (Road) North & South
<ul style="list-style-type: none"> • Pavement Design for Industrial Sector Ecotech 7 Greater Noida for 60m and 45m wide road
<ul style="list-style-type: none"> • Rehabilitation of Deck Slab of Sunahari Nalah at DTC Bus Depot, Lodhi Road, New Delhi
<ul style="list-style-type: none"> • Resilient modulus test of DBM grade-II (06nos)for construction of Four/six lane greenfield Ludhiana-Rupnagar NH205K from Junction with NE-5 to Junction with NH-205
<ul style="list-style-type: none"> • Assessing the feasibility of Geo-Composites as a Sustainable Replacement for Conventional GSB in Rigid Pavement Structure
<ul style="list-style-type: none"> • Evaluation of Muzaffarnagar-Miranpur Section of NH-709AD from Km 97.450 to 123.450 towards suggesting rectification measures.
<ul style="list-style-type: none"> • Effectiveness Evaluation of the Speed Calming Measures using Thermal Sensor Technology through Artificial Intelligence
<ul style="list-style-type: none"> • Testing of Curing Compound AC-CURE-SW with specification as per ASTM C-309
<ul style="list-style-type: none"> • Performance Evaluation of PMGSY Roads constructed using New Technology, Full Depth Reclamation (FDR) with Cement and Additive
<ul style="list-style-type: none"> • Mix Design of FDR layer for road (i) Upgradation of Kaffota Koti road Kando Cheog to Tons Bridge km 0/0 to 28/575 (Under PMGSY-III) (Batch-I) (2023-24) (Package No. HP-10-295)
<ul style="list-style-type: none"> • Traffic Study for Feasibility of Mineral Transportation due to Operation of Dalpahar Iron Ore Mine
<ul style="list-style-type: none"> • Evaluation of Bitumen, DBM, DAC and PQC Samples
<ul style="list-style-type: none"> • Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-26) of HSRP for M/s Shimnit India Pvt. Ltd.
<ul style="list-style-type: none"> • Investigation to assess causes of Rutting in some stretches (total length of approx. 60 km.) and to suggest remedial measures to improve riding of Pkg IV, PkgV and Pkg VI of Bundelkhand Expressway
<ul style="list-style-type: none"> • Evaluation of 1Km of Service road Constructed by using lignin as replacement of bitumen
<ul style="list-style-type: none"> • Investigation to assess the causes of distress in Swaroopganj Pindwara Udaipur section of NH-27 from km. 259 to Km.264 (5km) and to suggest remedial measures.
<ul style="list-style-type: none"> • Assessment and Evaluation of COP-21 of HSRP for M/s Real Mazon India Ltd.
<ul style="list-style-type: none"> • Pavement Design for construction of Approach Road to Cremation Ground at village Bakkarwala
<ul style="list-style-type: none"> • Restoration of Rishal Garden to Airforce Bani Camp Road Baprola, Delhi
<ul style="list-style-type: none"> • Vetting of Pavement Design of Project "Chittor to Thatchur (43 km Section of Greenfield Alignment under Bharatmala Pariyojna in Andhra Pradesh and Tamilnadu".
<ul style="list-style-type: none"> • Post construction Technical Quality Audit and investigation for the appearance of distress 4-laning of Varanasi Gorakhpur section of NH-29 from km 149.540 to km 215.160 (Package-IV) in the state of Uttar Pradesh under NHPD Phase.
<ul style="list-style-type: none"> • Investigations to study causes of distress at Runway of Air Force Hindan Air Force Station, Hindan Ghaziabad and suggesting suitable remedial measures
<ul style="list-style-type: none"> • Visual Inspection of 8 Lane underpasses at Ch. 25+695 of Green field alignment of Delhi-Vadodara Express way Starting before KMP Expressway and ends at Ch.47+000 near Khanpur Ghati constructed under bharatmala pariyojna in the state of Haryana
<ul style="list-style-type: none"> • Laboratory and Field Performance Evaluation of Ongoing Hot in Place Recycling on specified section (2 Km) of 4 laining at Toopran in Telangana on Hyderabad Nagpur of NH-44
<ul style="list-style-type: none"> • PCN Evaluation of MSPL Airport at Koppal, Karnataka using Heavy Weight Deflectometer
<ul style="list-style-type: none"> • Determination of Resilient Modulus of WMM material using a dynamic testing facility

<ul style="list-style-type: none"> Mix design for DBM+BC with optimized RAP for the construction of Ludhiana-Rupnagar NH-205k from junction NE-5 near Manual (Ludhiana) to Junction with NH-205 near Bheora Village (Rupnagar) including spur to kharar with Ludhiana Bypass in the state of Punjab.
<ul style="list-style-type: none"> Assessment and Evaluation of Manufacturing Process for Conformity of Production (COP-25th) of HSRP for M/s Shimnit India Pvt. Ltd.
<ul style="list-style-type: none"> Design of bitumen stabilized material (BSM) mix with foamed bitumen and pavement design on the basis of given msa
<ul style="list-style-type: none"> Development of an Eco-friendly Biodegradable 'Natural Prefabricated Vertical Drain (NPVD)'-A Sustainable Solution for Ground Improvement of Soft Soils
<ul style="list-style-type: none"> Assessment and Evaluation of COP-45 of HSRP for M/s FTA HSRP Solutions Pvt. Ltd.
<ul style="list-style-type: none"> Investigation of Failure of pavement of Delhi-Vadodara Greenfield Alignment (DVGA, NH-148N) from Ch.151+840 to Ch. 183+000 (Keshopura Road-Junction with NH-11; pkg.-06,31.16 Km)
<ul style="list-style-type: none"> Investigation of Failure of pavement and structures of Delhi-Vadodara Greenfield Alignment (DVGA, NH-148N) from Ch.151+840 to Ch. 183+000 (Keshopura Road-Junction with NH-11, pkg.-06,31.16 Km)
<ul style="list-style-type: none"> Five-day Training course on the Application of Geosynthetics in Road Infrastructure Projects
<ul style="list-style-type: none"> Mix design and technical advice for FDR technologies for Roads under 7 Package HP-08-557, 558, 560, 561, 562, 563, 564 in nerchowk and Karsog divisions of Mandi PWD HP.
<ul style="list-style-type: none"> Traffic Study for Rimuli to Koida Section of NH 215 in the State of Odisha
<ul style="list-style-type: none"> Traffic Study for Singhara to Binjabahal Section of NH 49 in the State of Odisha
<ul style="list-style-type: none"> Evaluation of damaged Rigid Pavement and remedial measure for the rehabilitation and upgradation of four/six laning of Puintola to Tangi section (Pkg-II) of NH 5 (New NH-16) only rigid pavement section about 29 km in the state of Odisha
<ul style="list-style-type: none"> Evaluation of LCR/MIF Value for Saint Gobian biaxial Polypropylene geogrid (SG2020PP)
<ul style="list-style-type: none"> Development of Steel Slag Road Section at Adani Hazira Port for Construction of Port Road using Steel Slag Aggregates
<ul style="list-style-type: none"> Feasibility of Requirement of elevated road over the road connecting 45m wide ROW road in Sector 4 (Greater Noida) with village shahberi, Crossing Republic and NH-91 Ghaziabad) in view of existing traffic and site conditions.
<ul style="list-style-type: none"> Assessment and Evaluation of COP-11 of HSRP for M/s AGROS IMPEX INDIA PVT. LTD.
<ul style="list-style-type: none"> Evaluation of LCR/MIF Value (PP2020 and PP4040 Extruded geogrid)
<ul style="list-style-type: none"> Detailed Investigation and Testing of Structures falling in the Stretch of 6-Lane Udaipur-Ratanpur-Shamlaji Section of NH-8 from Km. 333.585 to Km. 446.515 completed under NHDP Phase-V
<ul style="list-style-type: none"> Assessment and Evaluations of COP-27 of HSRP for M/s Shimnit India Pvt. Ltd.
<ul style="list-style-type: none"> Customized Training Program for PWD engineers of UT of Andaman & Nicobar
<ul style="list-style-type: none"> Performance Evaluation of Epoxy Asphalt Overlay on PQC at Mumbai Pune Expressway (Chainage from Km 34+500 to Km 38+390)
<ul style="list-style-type: none"> 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 36** (approx)
<ul style="list-style-type: none"> Laboratory Evaluation of Palletised Cellulose Fibers for Stone Matrix Asphalt
<ul style="list-style-type: none"> 15 day Skill Development Certificate Course on "Road Safety Audit and other Road Safety Engineering related aspects" for the Highway Engineers/ Transportation Consultants-13th Batch
<ul style="list-style-type: none"> Failure Analysis and Design of Remediation Works for Rehabilitation of Retaining Wall, CRPF Campus, Srinagar

<ul style="list-style-type: none"> • Consultancy services for Design and recommendation of pavement for Indo-Bangladesh Border Roads in the States of Tripura and Mizoram
<ul style="list-style-type: none"> • Customized Training Programme on Road Network Planning for the Engineers of PWD Meghalaya
<ul style="list-style-type: none"> • Assessment and Evaluation of COP-19 of HSRP for M/s Real Mazon India Limited
<ul style="list-style-type: none"> • Review of pavement design for Six laning of Chengala to Neeleshwaram Section of NH-17 (New NH-66) from ch. 56+200 to ch. 93+468 under Bharatmala Pariyojana in the State of Kerala on Hybrid Annuity Mode
<ul style="list-style-type: none"> • CSIR-CRRI Regular Training Programme (Online & Offline) for the year 2024-2025
<ul style="list-style-type: none"> • Expert advice on Repair and Strengthening of concrete roads in township area, office building area and Hydro Power Project site area at NTPC Koldam, Bilaspur, H.P.
<ul style="list-style-type: none"> • Mechanical and Chemical Properties of 32 mm SS Reinforcement Bar
<ul style="list-style-type: none"> • Mix Design of BC and FDR Layer for Jamta to Birla Road, Nahan Division, HP PWD (Pkg No. HP-1-290)
<ul style="list-style-type: none"> • Evaluation of Mechanical/Physical Properties of Elastomeric Bearing at the design load of 286 MT as per IRC-83: 2018
<ul style="list-style-type: none"> • Assessment and Evaluation of COP-42 of HSRP for M/s FTA HSRP Solutions Pvt. Ltd.
<ul style="list-style-type: none"> • Assessment of FDR related work executed on PMGSY road T-15 Raigarh to Zahi of 8Km lenth (Package UP29135) in PIU Ghazipur Uttar Pradesh
<ul style="list-style-type: none"> • Feasibility study of using Module developed from end-of-life plastic for road and allied construction
<ul style="list-style-type: none"> • Testing and Evaluation of stabilized pavement layers (Base/Sub Base & FDR) using stabilizer Road Packer Plus (Liquid) in the Laboratory
<ul style="list-style-type: none"> • Structural Safety Audit of the 5 nos. of minor bridges at km 21.717, km 23.150, km 88.300, km 92.100 and at Km 26+700 (Dhanikhadi in CRZ area) on NH-4 in the Union Territory of Andaman & Nicobar Islands on EPC mode.
<ul style="list-style-type: none"> • Laboratory Study of Performance Grade Bituminous Emulsion for Cold Recycling Technology for Low and High Traffic Pavement.