

## Flyover Sector

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
1.	Prepare Detail Design, Drawing & Construction Supervision including other Incidental Works for Construction of 4 nos. Flyover at different Railway crossing under the project 'Integrated Urban Infrastructure Development in Rajshahi City' Package No. SW-02 (Lot-B).	RCC	Start Date May 2021  Completion Date Ongoing	Tk. 449.53 Lacs	a. Length: 400 m long Horogram Notunpara Railway Crossina Flyover b. Length: 521 m long Court Station Railway Crossing Flyover c. Length: 897 m long Kamaruzzaman Chottor Railway Crossing Flyover Length: 520 m long Vodra Railway Crossing Flyover	<p><b>A. General Scope of Services</b> The consultants shall render Consulting services for Prepare detail Design, Drawing &amp; Construction Supervision including other incidental works for construction of 4 nos. Flyover at different Railway Crossing' under the Project "Integrated Urban Infrastructure Development in Rajshahi City".</p> <p><b>B. Summary of Scope of Services</b> The Consulting services comprise of two phases. The selected Consultant shall provide services, as per TOR, for the following but not limited to:</p> <ul style="list-style-type: none"> <li>(i) Planning lay out plan, Preliminary conceptual drawing (Long section plan, different section, perspective view etc.) for the entire works of the proposed for 4 nos. of Flyover construction works for approval.</li> <li>(ii) After approval the inception report consultant will prepare detail plan, elevation, cross sections, perspective views etc, digital survey, sub-soil investigation, structural design with the detail calculation with foundation design, including Street lighting, Gas line, Water supply line and other utility services design. It also including prepare of detail structural drawing.</li> <li>(iii) Preparation of detailed cost estimates with calculation sheets, bill of quantities and technical specification, pre-qualification documents for all items of works. Prepare tender documents as per PPR-2008 and also to carry out the technical and financial scrutiny of the tenders to be received and assist RCC in the evaluation process of the tenders.</li> <li>(iv) The consultant will appoint technical personnel for full time supervision during construction.</li> <li>(v) The consultant will act as a consultant of RCC in matter related to the technical &amp; contractual issues of construction of the proposed Flyovers construction.</li> </ul> <p>The Consultant shall function on behalf of Mayor, Rajshahi City Corporation of the Project. The Consultant shall perform his duties in accordance with acceptable criteria and standards applicable to civil works and exercise the</p>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<p>powers vested in him under Mayor, Rajshahi City Corporation contract with the Contractor.</p> <p><b>Phase Detailing: Phase 1: Preliminary Engineering Design, Specifications, Cost Estimates, Tender Drawings and Design for Tendering for each flyover. (Duration 6 Months)</b></p> <ul style="list-style-type: none"> <li>• Detail Topography survey</li> <li>• Subsoil Investigation</li> <li>• Preliminary plan, Section, Elevation etc.</li> <li>• Preliminary Design &amp; Drawing</li> <li>• Final Plan, Section, Elevation etc. with 3D perspective view</li> <li>• Final Plan, Section, Elevation etc. &amp; Detailed Design &amp; Drawing</li> <li>• Cost Estimate</li> <li>• Preparation of Pre-qualification Documents &amp; Tender documents</li> <li>• Detailed Structural design of Structures</li> </ul> <p><b>Phase 2: Construction Supervision. Duration 36 Months</b> Full Time Construction Supervision</p>
2.	Prepare Detail Design, Drawing & Construction Supervision including other incidental works for Construction of Integrated Flyover at Bornali, Bondho Gate and New Bilsimla Railway Crossing along recently completed 4 lane Road under the project Integrated Urban Infrastructure Development in Rajshahi City (Lot-C).	RCC	Start Date May 2021  Completion Date Ongoing	Tk. 287.95 Lacs	Length: 1255 m long Bornali, Bondho gate and new Bilsimla Railway Crossing Flyover	<p><b>A. General Scope of Services</b> The consultants shall render Consulting services for Prepare detail Design, Drawing &amp; Construction Supervision including other incidental works for construction of 1255.00 m. Flyover at Bornali, Bondho gate and new Bilsimla Railway Crossing along recently completed 4 lane road under the Project "Integrated Urban Infrastructure Development in Rajshahi City".</p> <p><b>B. Summary of Scope of Services</b> The Consulting services comprise of two phases. The selected Consultant shall provide services, as per TOR, for the following but not limited to:</p> <p>(vi) Planning lay out plan, Preliminary conceptual drawing (Long section plan, different section, perspective view etc.) for the entire works of the proposed for 1255.00 m. Flyover construction works for approval.</p> <p>(vii) After approval the inception report consultant will prepare detail plan, elevation, cross sections, perspective views etc, digital survey, sub-soil investigation, structural design with the detail calculation with</p>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<p>foundation design, including Street lighting, Gas line, Water supply line and other utility services design. It also including prepare of detail structural drawing.</p> <p>(viii) Preparation of detail cost estimates with calculation sheets, bill of quantities and technical specification, pre-qualification documents for all items of works. Prepare tender documents as per PPR-2008 and also to carry out the technical and financial scrutiny of the tenders to be received and assist RCC in the evaluation process of the tenders.</p> <p>(ix) The consultant will appoint technical personnel for full time supervision during construction.</p> <p>(x) The consultant will act as a consultant of RCC in matter related to the technical &amp; contractual issues of construction of the proposed Flyovers construction.</p> <p>The Consultant shall function on behalf of Mayor, Rajshahi City Corporation of the Project. The Consultant shall perform his duties in accordance with acceptable criteria and standard applicable to civil works and exercise the powers vested in him under Mayor, Rajshahi City Corporation contract with the Contractor.</p> <p><b>Phase Detailing: Phase 1: Preliminary Engineering Design, Specification, Cost Estimate Tender Drawing and Design for Tender Document. Duration 6 Months</b></p> <ul style="list-style-type: none"> <li>• Detail Topography survey.</li> <li>• Subsoil Investigation</li> <li>• Preliminary plan, Section, Elevation etc.</li> <li>• Preliminary Design &amp; Drawing</li> <li>• Final Plan, Section, Elevation etc. with 3D perspective view</li> <li>• Final Plan, Section, Elevation etc. &amp; Detailed Design &amp; Drawing</li> <li>• Cost Estimate</li> <li>• Preparation of Pre-qualification Documents &amp; Tender documents</li> <li>• Detailed Structural design of Structures</li> </ul>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<b>Phase 2: Construction Supervision. Duration 36 Months</b> Full Time Construction Supervision
3.	Consulting services for Preparation of detailed Architectural & Structural Design, Drawing, Cost Estimate, Bid Document and Permanent Supervision for Construction of Elevated Expressway at Chittagong from Lalkhan Bazar to Shah Amanat Airport.	CDA	Start Date: July 2018  Completion Date: Ongoing	Tk. 4566.93 Lacs	Four-lane elevated expressway. Length: 16.5 km Width: 16.5 meters.	<p><b>Phase-I: Design &amp; Selection of Contractor</b></p> <ul style="list-style-type: none"> <li>- Topographic survey along with details survey;</li> <li>- Preparation of alignment of proposed Elevated Expressway;</li> <li>- Sub-soil investigation;</li> <li>- Preparation of detail architectural drawing (plan, elevation, section, 3D perspective views, etc.) &amp; structural and geo-metric design, preparation of working drawings;</li> <li>- Preparation of drawing design of Toll Plaza and Bus bay;</li> <li>- Preparation of geometric curve design;</li> <li>- Preparation of design, calculation sheet;</li> <li>- Preparation of road design along with drain, cross drain, culvert to drainage, water flow;</li> <li>- Preparation of technical specifications;</li> <li>- Preparation of detailed cost estimate with bid/tender documents;</li> <li>- Environmental Impact Assessment (EIA), Environmental Management Plan (EMP).</li> </ul> <p><b>Phase – II: Supervision of Construction works</b></p> <ul style="list-style-type: none"> <li>- Construction supervision;</li> <li>- Quality control;</li> <li>- Check the bill in each interim payment certificate;</li> <li>- Preparation of reports;</li> <li>- Defect liability period.</li> </ul>
4.	Consulting services for a 04 (Four) Lane Overpass under the Project “Construction of Connecting Road from Natore Road (RUET) to Rajshahi By-Pass Road (1st Revised).”	RDA	Start Date: January 2018  Completion Date: April 2020	Tk. 91.70 Lacs	Four Lane Overpass. Length: 642.00 meter	<p>The Consultant shall function on behalf of RDA as “the Engineer Representative” of the Project. The Consultant shall perform his duties in accordance with acceptable criteria and standard applicable to civil works and exercise the powers vested in him as the Engineer representative under RDA’s contract with the Contractor.</p> <p>In detail, consultant’s responsibilities will comprises the following:</p> <ol style="list-style-type: none"> <li>i. Preparation of Detailed Architectural Drawing (Plan, Elevation etc.) and Detailed Structural design.</li> <li>ii. Conduct subsoil investigation to get geological information and geotechnical parameters.</li> <li>iii. Conduct detailed topographical survey.</li> </ol>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<ul style="list-style-type: none"> <li>iv. Furnish for use of contractor all necessary design, documents and to approve contractor's working drawings.</li> <li>v. Review and recommend for approval of RDA the Contractor's Working Schedule.</li> <li>vi. Assess the adequacy of all inputs such as materials and labours provided by the contractor and his methods of work in relation to the required rate of works in order to expedite progress.</li> <li>vii. Verify contractor's takeout survey for the centre line of alignment of the works.</li> <li>viii. Inspect and evaluate contractor's all installation, site office, yards, warehouses and other temporary works at the site or elsewhere to ensure compliance with terms and conditions of the contract documents.</li> <li>ix. Provide effective and regular supervision of the work and supervise the quality test to assure that the works are executed in accordance with established standard, criteria, specifications and procedures.</li> <li>x. Control and apprise the progress of work.</li> <li>xi. Inspect the safety aspects of the construction and improvement work method and procedures to ensure that every reasonable measures has been taken to protect life and property.</li> <li>xii. The establishment of a documented quality system and procedure including a quality plan in order to implement quality assurance on the contract supervision services and auditing of the Contractor's Quality Systems.</li> <li>xiii. To perform any other items not specifically mentioned above out which are necessary and essential for successful supervision and control of the construction activities in accordance with plans specification and Terms of Contract.</li> </ul>
5.	Detailed Design for an Overpass under the Project of "Construction of Connecting Road from Natore Road (RUET) to Rajshahi by-pass Road	RDA	Contract Date: May 21, 2015 Start Date: May 21, 2015 Completion Date: October 18, 2015	Tk. 18 Lacs	Length: 643 m, 2 Lane PC Girder	<ul style="list-style-type: none"> <li>• Detail Engineering Design</li> <li>• Detail Topographic Survey</li> <li>• Existing Utility Survey</li> <li>• Design Criteria</li> <li>• Soil and Subsurface Investigation</li> <li>• Fixation of Alignment of Overpass</li> <li>• Detail Design</li> </ul>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<ul style="list-style-type: none"> <li>Preparation of Cost estimate.</li> </ul>
6.	Design Review and Construction supervision of <b>Flyover Bridges in Dhaka [Construction Moghbazar – Mouchak (combined) Flyover] Project</b>	LGED	Contract Date: June 12, 2012 Start Date: June 27, 2012  Completion Date: December, 2014	1156.12282 Lacs	Eight Km (8000 meter)	Site survey, sub-soil investigation, preparation of detail architectural drawing (plan, elevation, section, 3D perspective view etc.), structural design & working drawings, preparation of cost estimate, specification of works & materials, bid document and full time supervision, quality control and management of construction works. The Consultants will also conduct both technical and financial feasibility study of the project.
7.	Supervision of Construction work of <b>Kadamtoli Junction Flyover</b> , Chittagong	CDA	<b>Contract Date:</b> December 26, 2013  Start Date: January 2014  Completion Date: May 2015	Tk. 130.30 Lacs	Length: 645 m PC Girder	Site survey, sub-soil investigation, preparation of detail architectural drawing (plan, elevation, section, 3D perspective view etc.), structural design & working drawings, preparation of cost estimate, specification of works & materials, bid document and full time supervision, quality control and management of construction works. The Consultants will also conduct both technical and financial feasibility study of the project.
8.	<b>Prefeasibility Study, Feasibility Study,</b> Detailed Design and construction supervision of <b>Flyover at Muradpur</b> , 2 no. Gate & GEC Junction, Chittagong	CDA	Start Date: January 2014  Completion Date: December, 2017	Tk. 905.00 Lacs	5.2 Km (5200 meter)	Site survey, sub-soil investigation, preparation of detail architectural drawing (plan, elevation, section, 3D perspective view etc.), structural design & working drawings, preparation of cost estimate, specification of works & materials, bid document and full time supervision, quality control and management of construction works. The Consultants will also conduct both technical and financial feasibility study of the project.
9.	Detailed Engineering Design and Construction Supervision for <b>Railway Overpass</b> and Road connecting between Bijoy Sarani and Tejgaon Industrial Area.	RAJUK	Contract Date: March 09, 2011 Start Date: March 2008  Completion Date: April 2010	Tk 24.89 Lacs	Length: 669.00 m, 4 Lane PC Girder	<ul style="list-style-type: none"> <li>Topographical survey of the alignment &amp; fixing of centerline</li> <li>Sub-soil investigation by deep boring for foundation design fixing the length of bored pile, pile cap, column &amp; pier cap</li> <li>Classified Traffic Count</li> <li>Detailed design of bored pile, pile cap, column, pier and pier cap</li> <li>Detailed design of pre-stressed girder &amp; deck slab</li> <li>Detailed design of pavement structure</li> <li>Detailed design of Overpass and outdoor lighting</li> </ul>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<ul style="list-style-type: none"> <li>Preparation of Cost Estimate, Tender Documents, Bill of Quantities, Technical Specifications and Tender Documents</li> <li>Preparation of Working Drawings</li> <li>Supervision of the all construction works</li> </ul>
10.	Dhaka Urban Transport Project (DUTP) <ul style="list-style-type: none"> <li>Design review and Construction Supervision of <b>Mohakhali Flyover</b>.</li> <li><b>Feasibility Study of Jatrabari Flyover</b></li> <li>Construction supervision of three no. interdistrict Bus Terminal.</li> <li>Construction supervision of 12 no. foot over Bridge.</li> <li>Maitanance and beautification of Dhakacity Corporation Road.</li> </ul>	DTCB	Contract Date: January 14, 1999 Start Date: February, 1999  Completion Date: December, 2004	7.59 Million	Mohakhali Flyover. Length: 1011.797 m including ramp (4-Lan PC Box Girder Bridge)  Jatrabari Flyover Length: 1810.00 m	<ol style="list-style-type: none"> <li>Document Review: Detailed review and finalization of bidding documents for DUTP infrastructure components and prepare designs and bidding documents for components identified and agreed to be implemented during this project.</li> <li>Survey &amp; Investigation: Conducting all necessary surveys which include topographic, traffic, pavement condition, drainage, sub-soil conditions, utility services, socio-economic surveys etc.</li> <li>Bidding Documents: Preparation of plans, specifications, bill of quantities, pre-tender estimates and bidding documents of international standards.</li> <li>Assistance with Pre-qualification of Contractors: This activity includes:               <ul style="list-style-type: none"> <li>Assisting DCC and RHD to finalize Pre-qualification Documents</li> <li>Assessment of applications for Pre-qualification</li> </ul> </li> <li>Assistance with Tenders and Evaluation :               <ul style="list-style-type: none"> <li>Assisting DCC and RHD to finalize Tender Documents</li> <li>Responding to Inquires during tender period and assist with pre bed meetings</li> <li>Assessing tenders obtaining necessary clarifications preparing tender reports and recommendations</li> <li>Preparing contract documents following acceptance of a tender</li> </ul> </li> <li>Contract Supervision: The main activities of the consultant during the construction phase will be –               <ul style="list-style-type: none"> <li>Site Supervision of the works proceeding in each individual contract</li> <li>Preparation of certificates (payment, completion and maintenance)</li> <li>Quality assurance</li> <li>Operation and maintenance of the project</li> </ul> </li> </ol>

Sl. No.	Project Name	Client	Period of Execution	Total value of the services (Contract Value)	Size & Type	Type of Service rendered by your firm
						<ul style="list-style-type: none"> <li>• Transfer of Technology and Training of Staff at project site and overseas</li> <li>g. Provide road safety audits of road improvement proposals.</li> <li>h. Provide technical assistance for identification, acquisition and deployment of equipment for DCC, DMP and BRTA.</li> <li>• Organize training programs including guideline for selection of personnel to attend training programs.</li> </ul>
11.	Detailed Architectural & Structural Design, Drawing, Cost Estimate, Bid Document and Permanent Supervision for Construction of Flyover at Bahaddarhat Junction, Chittagong.	CDA	<b>Start Date</b> March 2010  <b>Completion Date</b> September 2013	Tk. 290.45 Lacs (USD 0.37 million)	Length 1384 m	<ul style="list-style-type: none"> <li>• Carryout preliminary study for conceptual design and planning.</li> <li>• Preliminary conceptual architectural design and route selection of the Flyover.</li> <li>• Preparation of Pre-qualification Document and Contractor Bidding Document</li> <li>• Conduct all survey works along the existing road alignment passing through Bahaddarhat intersection and its vicinity.</li> <li>• Carryout design for geometric elements of the flyover.</li> <li>• Prepare required maps, drawings, design including contour maps, longitudinal profile, cross section, landscaping and other related road elements to serve vehicular and pedestrian traffic safety.</li> <li>• Prepare Detail Architecture Drawing (Plan, Elevation, Section, 3D-perspective view, etc.)</li> <li>• Prepare structural Design and Drawing for construction of the Flyover including retaining wall, abutment wall and other secondary bridge and culverts necessary along the road, soil stabilization and all other necessary work related to this.</li> <li>• Prepare detailed cost estimate with calculation sheets.</li> <li>• Full time Construction Supervision.</li> </ul>