

Corrigendum - 3

NAME OF WORK

23.12.2025

C2/PACKAGE – 1:

“ Design & Construction of Elevated Viaduct including Ramps of Elevated Section of length 7.795 Km (-0.675km to Ch -0.050km & Ch 11.230km to Ch 16.755km & Ch: 16.755km to Ch 18.400km) and RoR for BSTP Corridor and other related infrastructural works in between Bennigenahalli to Shettyhalli including validation of Design and stability check for works executed by previous Contractor including design & Construction of Double Decker from Ch. 14+562.903 to Ch. 15+680.447, including design & construction of Double Decker Station at Mattikere & design and construction of balance works at Bennigenahalli Station of Corridor-2 and including part work up to substructure for Corridor-1 at Yeshwanthpur of Bengaluru Suburban Transport Project (BSTP)”

TENDER NO: KRIDE/BSTP/C2/PACKAGE-1/2025

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Sl. No	Clause Reference/ Page no.	Amendments			
1.	Section 6 – Contract Data	<b>Replace:</b>			
		<b>KEY DATES</b>			
		The Contractor shall prepare and submit their detailed Programme of Work so as to achieve key dates of various activities on time. The Contractor shall complete the work in a phased manner by fixing priorities to different stretches of work to give access to the other interfacing contractors as per the requirement of project from time to time and as per the key dates (milestones) indicated below:			
	Annexure – 1 Part A – Contract Data - KEY DATES	i) <b>FOR GENERAL:</b>			
		<b>Key Dates No.</b>	<b>Description of Key date</b>	<b>Time to achieve. (in days from date of Commencement date)</b>	<b>Delay damages for non- achieving the key dates</b>
		KD-1	Completion and Commissioning of Project Office for the Employer & Engineer, duly furnished with all furniture, cabins, conference hall, appliances, IT equipment, tools, personnel, consumables etc. complete.	30	0.0005% of total contract price per day of delay
		KD-2	Employers’s approval of CV and mobilization of all Key personnel.	30	0.001% of total contract price per day of delay for the key date
		KD-3	Submission and Engineer’s approval of Contractor’s Quality, Health & Safety and Environment policies and manuals	30	0.001% of total contract price per day of delay for the key date
		KD-4	Submission and Engineer’s approval of Contractor’s Detailed Baseline Programme.	45	0.001% of total contract price per day of delay for the key date

Sl. No	Clause Reference/ Page no.	Amendments			
		KD-5	Submission and approval of design stage-I, Preliminary design	45	0.001% of total contract price per day of delay for the key date
		KD-6	Commissioning of Batching Plant (Approval of all mix designs, production of 1st batch of concrete in case of Open foundation, Pile load test ).	60	0.001% of total contract price per day of delay for the key date
		KD-7	Submission of final approved Detailed design and drawings for Civil, Structural works	90	0.001% of total contract price per day of delay for the key date
		<b>ii) FOR ELEVATED VIADUCT PORTION (Other than double Decker):</b>			
		KDV-1	Completion of 1st working pile /open foundation.	60	0.001% of total contract price per day of delay for the key date
		KDV-2	Setting of Casting Yard for Pier Cap/ 'U' Girder/ I-girder	120	0.001% of total contract price per day of delay for the key date
		KDV-3	Completion of 1st Pier along with Pier cap from the balance works	90	0.001% of total contract price per day of delay for the key date
		KDV-4	Completion of Casting of 1st 'U' Girder /I -girder for one full span	150	0.001% of total contract price per day of delay for the key date
		KDV-5	Erection by Crane/launching girder of 1st U Girder /I-girder for five full span	210	0.001% of total contract price per day of delay for the key date
		KDV-6	Completion of Entire foundation Works (Pile/Open foundation)	280	0.001% of total contract price per day of delay for the key date
		KDV-7	Completion of all sub-structure including piers Pier cap portals & Portal beams	350	0.001% of total contract price per day of delay for the key date
		KDV-8	Completion of Bennigenahalli Station works	240	0.001% of total contract price per day of delay for the key date
		KDV-9	Completion of Hebbal ROR work	450	0.001% of total contract price per day of delay for the key date
		KDV-17	Completion of all Super structure works and Full access of the main line of viaduct of length 4 km and handing over of stretch to track contractor	600	0.001% of total contract price per day of delay for the key date
		KDV-18	Completion of Benniganahalli ROR works	650	0.001% of total contract price per day of delay for the key date

Sl. No	Clause Reference/ Page no.	Amendments			
		KDV-20	Completion of Yeshwantpur ROR works	700	0.001% of total contract price per day of delay for the key date
		KDV-21	Completion of All Miscellaneous works including Expansion Joints, Manhole, Cable trays inserts etc. as per contract	710	0.001% of total contract price per day of delay for the key date
		KDV-22	Completion of all works as per Contract and Taking Over of Works	730	0.036% of total contract price per day of delay for the key date
		<b>III) FOR ELEVATED VIADUCT DOUBLE DECKER PORTION:</b>			
		KDD-1	Completion of 1st working pile /open foundation.	60	0.001% of total contract price per day of delay for the key date
		KDD-2	Completion of 1st Pier along with Pier cap	120	0.001% of total contract price per day of delay for the key date
		KDD-3	Casting of 1st Pier arm /'U' Girder/ I-girder	120	0.001% of total contract price per day of delay for the key date
		KDD-4	Completion of Casting of 1st 'U' Girder & I -girder for one full span	180	0.001% of total contract price per day of delay for the key date
		KDD-5	Erection by Crane/launching girder of 1st U Girder & I-girder for five full span	210	0.001% of total contract price per day of delay for the key date
		KDD-6	Completion of Entire foundation Works (Pile/Open foundation)	240	0.001% of total contract price per day of delay for the key date
		KDD-7	Completion of all sub-structure including piers Pier cap portals & pier arms	350	0.001% of total contract price per day of delay for the key date
		KDD-8	Completion of Mattikere Station structural works	500	0.001% of total contract price per day of delay for the key date
		KDD-9	Completion of All Miscellaneous works including Expansion Joints, Manhole, Cable trays inserts etc. as per contract	520	0.001% of total contract price per day of delay for the key date
		KDD-10	Completion of all works as per Contract and Taking Over of Works	530	0.036% of total contract price per day of delay for the key date

Note:

1. Any imposition of penalty on account of delay in accomplishing of key dates mentioned above will be waived and penalty amount if deducted will be refunded (without interest) provided the contractor achieves the subsequent key dates (only upon accomplishing the preceding key dates) for General, Elevated viaduct and Elevated double decker separately. Such achievement of Key dates by the Contractor shall be recommended by Engineer for approval of the Employer. Employer decision is final in this regard.
2. These penalties shall not relieve the Contractor from his obligation to complete the entire work or from any other obligations and liabilities under this Contract.

**With:**

#### **KEY DATES**

The Contractor shall prepare and submit their detailed Programme of Work so as to achieve key dates of various activities on time. The Contractor shall complete the work in a phased manner by fixing priorities to different stretches of work to give access to the other interfacing contractors as per the requirement of project from time to time and as per the key dates (milestones) indicated below:

##### **i) FOR GENERAL:**

<b>Key Dates No.</b>	<b>Description of Key date</b>	<b>Time to achieve. (in days from Commence ment date)</b>	<b>Delay damages for non- achieving the key dates</b>
KD-1	Employer's approval of CV and mobilization of Key personnel from Sl.no 1,2,5,8 & 15 mentioned in Annexure 1, Appendix-04, organisation chart and key positions	14	0.001% of total contract price per day of delay for the key date
KD-2	Submission and Engineer's approval of Contractor's Initial work Programme (IWP).	14	0.001% of total contract price per day of delay for the key date
KD-3	Completion and Commissioning of Project Office for the Employer & Engineer, duly furnished with all furniture, cabins, conference hall, appliances, IT equipment, tools, personnel, consumables etc. complete.	30	0.0005% of total contract price per day of delay
KD-4	Submission and Engineer's approval of Contractor's Quality, Health & Safety and Environment policies and manuals	45	0.001% of total contract price per day of delay for the key date
KD-5	Submission and approval of design stage-I, Preliminary design	45	0.001% of total contract price per day of delay for the key date
KD-6	Commissioning of Batching Plant (Approval of all mix designs, production of 1st batch of concrete in case of Open foundation, Pile load test ).	60	0.001% of total contract price per day of delay for the key date
KD-7	Submission and Engineer's approval of Contractor's Detailed Baseline Programme.	60	0.001% of total contract price per day of delay for the key date

Sl. No	Clause Reference/ Page no.	Amendments			
		KD-8	Employer's approval of CV and mobilization of all other Key personnel.	90	0.001% of total contract price per day of delay for the key date
		KD-9	Submission of final approved Detailed design and drawings for 50% of Civil, Structural works	90	0.001% of total contract price per day of delay for the key date
		KD-10	Submission of final approved Detailed design and drawings for 100% Civil, Structural works	120	0.001% of total contract price per day of delay for the key date
		ii) <b>FOR ELEVATED VIADUCT (Other than double Decker):</b>			
		<b>Key Dates No.</b>	<b>Description of Key date</b>	<b>Time to achieve. (in days from Commencement date)</b>	<b>Delay damages for non-achieving the key dates</b>
		KDV-1	Procurement and signing of casting yard land lease agreement	30	0.001% of total contract price per day of delay for the key date
		KDV-2	Completion of 1st working pile /open foundation at following locations: 1) Pier No. 234 to 210. 2) Pier No. 210 to 185. 3) Pier No. 100 to 80. 4) Pier No. 35 to 60.	60	0.001% of total contract price per day of delay for the key date
		KDV-3	Establishment of casting bed & stacking bed along with gantries and commissioning	90	0.001% of total contract price per day of delay for the key date
		KDV-4	Establishment of batching plant at casting yard and commissioning	90	0.001% of total contract price per day of delay for the key date
		KDV-5	Procurement of U- girder & I girder shutters, assembly and commissioning at casting yard	120	0.001% of total contract price per day of delay for the key date
		KDV-6	Setting of Casting Yard and Casting of First Pier Cap	120	0.001% of total contract price per day of delay for the key date

Sl. No	Clause Reference/ Page no.	Amendments				
		KDV-7	Completion of 1st Pier along with Pier cap from the balance works. 1) Pier No. 234 to 210. 2) Pier No. 210 to 185. 3) Pier No. 100 to 80. 4) Pier No. 35 to 60.	120	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-8	Completion of Casting of 1st 'U' Girder /I -girder for one full span	150	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-9	Erection of U Girder /I-girder for Twenty (20) full span by Crane	210	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-10	Mobilisation and commissioning of overhead launching girder along with transporter- 2 sets	270	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-11	Completion of Entire foundation Works (Pile/Open foundation)	270	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-12	Completion of all sub-structure including piers Pier cap portals & Portal beams	350	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-13	Completion of Bennigenahalli Station works	240	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-14	Completion of Hebbal ROR work	400	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-15	Completion of all Super structure works and Full access of the main line of viaduct of length 2 km and handing over of stretch to track contractor	450	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date

Sl. No	Clause Reference/ Page no.	Amendments				
		KDV-16	Completion of all Super structure works and Full access of the main line of viaduct of length 4 km and handing over of stretch to track contractor	550	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-17	Completion of Benniganahalli ROR works	600	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-18	Completion of Yeshwantpur ROR works	650	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-19	Completion of all Super structure works and Full access of the main line of viaduct and handing over of stretch to track contractor	680	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-20	Completion of All Miscellaneous works including Expansion Joints, Manhole, Cable trays inserts etc. as per contract	710	0.001% of total contract price per day of delay for the key date	0.0007% of total contract price per day of early achievement of key date
		KDV-21	Completion of all works as per Contract and Taking Over of Works	730	0.066% of total contract price per day of delay for the key date	0.04% of total contract price per day of early achievement of key date.  However, cumulative incentives for early achievement of Key Dates (KDV1 to 21) will be up to a maximum of 3.5% of total contract price .
		<b>III) FOR ROAD CUM RAIL ELEVATED VIADUCT (DOUBLE DECKER):</b>				
		<b>Key Dates No</b>	<b>Description of Key date</b>	<b>Time to achieve. (in days from Commencement date)</b>	<b>Delay damages for non-achieving the key dates</b>	<b>Incentives for early achievement of Key Dates</b>

Sl. No	Clause Reference/ Page no.	Amendments				
		KDD-1	Completion of 1st working pile /open foundation.	60	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-2	Casting of 1st Pre-Cast pier cap at casting yard	120	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-3	Completion of 1st Pier along with Pier cap for road level	150	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-4	Completion of Casting of 1st I -girder for one full span	150	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-5	Completion of 1st Pier along with Pier cap for Rail level	200	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-6	Erection of U Girder & I-girder for five full spans by Crane/launching girder.	240	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-7	Completion of Entire foundation Works (Pile/Open foundation)	270	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-8	Completion of all sub-structure including piers Pier cap portals & pier arms	450	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-9	Completion of Mathikere Station structural works	450	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-10	Completion of BSRP Superstructure works	600	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date

Sl. No	Clause Reference/ Page no.	Amendments				
		KDD-11	Completion of road Superstructure work including "Y" shaped connecting Loop.	700	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-12	Completion of All Miscellaneous works including Expansion Joints, Manhole, Cable trays inserts etc. as per contract	720	0.001% of total contract price per day of delay for the key date	0.00035% of total contract price per day of early achievement of key date
		KDD-13	Completion of all works as per Contract and Taking Over of Works	730	0.066% of total contract price per day of delay for the key date	0.015% of total contract price per day of early achievement of key date  However, cumulative incentives for early achievement of Key Dates (KDD1 to 13) will be up to a maximum of 1.5% of total contract price.
		<p><b>Note:</b></p> <ol style="list-style-type: none"> <li>Any imposition of penalty on account of delay in accomplishing of key dates mentioned above will be waived and penalty amount (if) deducted will be refunded (without interest) provided the contractor achieves the subsequent key dates (only upon accomplishing the preceding key dates) for General, Elevated viaduct and Elevated double decker separately. Such achievement of Key dates by the Contractor shall be recommended by Engineer for approval of the Employer. Employer decision is final in this regard.</li> <li>These penalties shall not relieve the Contractor from his obligation to complete the entire work or from any other obligations and liabilities under this Contract.</li> <li>The cumulative of all incentives for early achievement of Key date mentioned above will be limited to maximum 5% of the total Contract Price as per the Contract clause 26.14 of Particular Conditions of the Contract (PCC).</li> </ol>				

2.

ANNEXURE – 1

APPENDICES

APPENDIX-05

PLANT AND EQUIPMENT

Replace:

➤ Key and Critical Equipment's

• For Elevated Viaduct & Stations:

S. No.	Type of Equipment required for the work	Proposed to be Deployed (Minimum)
1.	*Piling Equipment Rotary Rig / Hydraulic Rig for soil boring and rock boring including diamond bits for rock boring.	04nos.
2.	Piling rig (Tripod) with conventional winch	06 nos.
3.	Fully Automatic and Computerized Batching Plant -1 no of 60 Cum / h & 1 no of 30 Cum / h minimum or equivalent capacity in different configuration at casting yard with a RO of suitable capacity for proper quality of water.	02 nos
4.	Concrete boom placers	02 no.
5.	Concrete pumps with sufficient pipes	04 nos.
6.	Transit Mixers	12 nos.
7.	Suitable launcher for U-girder launching/Box girder fully automatic, capable of negotiating 200m radius curve and 4% gradient, speed of trolley carrying U- girder for launching with load 2km/hr. and without load 3km/hr. to be mobilized. The minimum of two numbers of LG for launching of U-girders with motorized bogies for handling and transportation of U-girders to be mobilized. (Maximum permissible age in years is 7 Years)	02 nos.
8.	Crane of suitable capacity for erection of Precast Boxes/U girder/I-Girder/Pier cap etc at site	02 nos.
9.	Cranes in casting yard / site of suitable capacity	06 nos.
10.	Hydraulic excavator (1 cum bucket)	04 nos.
11.	Tippers / trucks (10 / 14 cum capacity)	04 nos.
12.	Dozer of suitable capacity	02 nos.

		13.	Front end loader with suitable capacity	02 nos.
		14.	Vibratory roller 8 l 10-ton capacity	08 nos.
		15.	Smooth wheeled roller 10-ton capacity	01 nos.
		16.	Water tanker of 6000 lit capacity	04 nos.
		17.	Back hoe loader of suitable capacity	01 nos.
		18.	Plate Vibratory Roller	04 nos.
		(*) Hydraulic Rigs deployed should have suitable capacity in terms of Torque and RPM to be able to drill through hard rock.		
		<b>(l) Other Plant and equipment to be deployed The Tenderer shall furnish the details of Own basis or Lease l Hire basis for the following equipment.</b>		
		<b>Sl. No.</b>	<b>Type of Equipment Required for the Work</b>	<b>Proposed to be Deployed (Minimum)</b>
		1.	250 MT or more capacity suitable cranes for erection of Precast RCC Box/l -girder/Retaining wall etc	03 nos.
		2.	Trailers / MAV for carrying Pier caps and other Precast elements of Suitable capacity as per site requirement	02 nos.
		3.	Man-lift for adequate height	04nos.
		4.	Crash Barriers & Friction slab Shutters	02 Sets
		5.	Crane 5 MT capacity	02 nos.
		6.	Crane 35 MT capacity	01 nos.
		7.	Generators 125 KVA	04 nos.
		8.	Survey equipment's: Total stations and auto level	2 sets

		<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Plant and equipment indicated above is minimum to be deployed at appropriate stage of the work. However, depending on the requirement to complete the work within the stipulated completion period the Tenderer shall deploy additional machinery as circumstances warrant at no extra cost. Plant and machinery above shall not be older than 5 years. In case of failure of any plant and machinery deployed at site the same shall be repaired / replaced within 7 days from the time of failure. The tenderer shall submit the copies of ownership of the equipment, in case of hire / purchase, copies of MOU with the supplier / owner of the equipment.</li> <li>2. The above type of plant and equipment (but not limited to) may be required for execution of the work. The contractor shall submit the details of plant &amp; equipment to be deployed in the above table within 14 days of issue of LOA to the Engineer for approval.</li> <li>3. Plant and equipment to be mobilized for the work shall be in good serviceable condition.</li> <li>4. The contractor will be penalized as deemed fit by the Employer, in case of any shortage.</li> <li>5. The Equipment listed above are the minimum requirements and the cost of the same is deemed to be included in the quoted price. However, if they are found to be short and not adequate to complete the works as per key dates, then further equipment to be arranged to accelerate the progress of work. Nothing extra shall be paid against additional deployment of the equipment.</li> <li>6. At the time of bidding contractor must demonstrate the possession of required plants &amp; equipment and capability to mobilize within short notice without wasting prime working time.</li> <li>7. All plants and equipment need to be mobilized simultaneously; plants and equipment as required as per the progress of the work shall be brought at site in advance or as directed by Engineer in charge.</li> <li>8. The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV, Forms of Tender.</li> <li>9. Domestic Preference: As per Make in India Policy-2017</li> </ol> <p>Plant and equipment indicated above is minimum to be deployed at appropriate stage of the work. However, depending on the requirement to complete the work within the stipulated completion period the Tenderer shall deploy additional machinery as circumstances warrant at no extra cost. Plant and machinery above shall not be older than 5years. In case of failure of any plant and machinery deployed at site the same shall be repaired / replaced within 7 days from the time of failure.</p> <p><b>With:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Key and Critical Equipment's</b> <ul style="list-style-type: none"> <li>• <b>For Elevated Viaduct:</b></li> </ul> </li> </ul>
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S. No.	Type of Equipment required for the work	Proposed to be Deployed (Minimum)
1.	*Piling Equipment Rotary Rig / Hydraulic Rig for soil boring and rock boring including diamond bits for rock boring (minimum torque of 250 KN.m.)	10 nos.
2.	Piling rig (Tripod) with conventional winch	06 nos.
3.	Fully Automatic and Computerized Batching Plant -1 no of 60 Cum / h and 1 no of 30 Cum / h minimum or equivalent capacity in different configuration at casting yard with a RO of suitable capacity for proper quality of water.	02 nos
4.	Concrete boom placers	03 nos.
5.	Concrete pumps with sufficient pipes	06 nos.
6.	Transit Mixers	12 nos.
7.	Suitable launcher for U-girder / I girder launching with fully automatic, capable of negotiating 200m radius curve and 4% gradient, speed of trolley carrying U-girder for launching with load 2km/hr. and without load 3km/hr including transporter. to be mobilized.	2 nos.
8.	Crane of suitable capacity for Erection of Precast Pier Caps	02 nos.
9.	Crane of Minimum capacity of 500 T for Erection of structural steel superstructure	02 nos.+ 1 no. standby at site
10.	Cranes in casting yard / site of suitable capacity	06 nos.
11.	Hydraulic excavator (1 cum bucket)	04 nos.
12.	Tippers / trucks (10 / 14 cum capacity)	04 nos.
13.	Dozer of suitable capacity	01 nos.
14.	Front end loader with suitable capacity	01 nos.

15.	Vibratory roller 8 /10-ton capacity	02 nos.
16.	Smooth wheeled roller 10-ton capacity	01 nos.
17.	Water tanker of 6000 lit capacity	04 nos.
18.	Back hoe loader of suitable capacity	01 nos.
19.	Plate Vibratory Roller	04 nos.

(\*) Hydraulic Rigs deployed should have suitable capacity in terms of Torque and RPM to be able to drill through hard rock.

- **Other Plant and equipment to be deployed.**

Sl. No.	Type of Equipment Required for the Work	Proposed to be Deployed (Minimum)
1.	250 MT or more capacity suitable cranes for erection of Precast U – Girder/ I - Girder	03 nos.
2.	Trailers / MAV for carrying Pier caps and other Precast elements of Suitable capacity as per site requirement	06 nos.
3.	Man-lift for adequate height	06nos.
4.	Crash Barriers & Friction slab Shutters	02 Sets
5.	Crane 15MT capacity	04 nos.
6.	Crane 35 MT capacity	01 nos.
7.	Generators 125 KVA	06 nos.
8.	Survey equipment's: Total stations and auto level	3 sets
9.	Pile cap Shutters	10 sets
10.	Pier and pier cap Shutter, staging and supporting arrangement for all type of Piers including Portals	12 sets
11.	Pre cast Post tension shutter staging support for Casting of Pier caps	6 Sets
12.	Pre cast post-tension I Girder Beds along with necessary shutter and support arrangements	15 Sets
13.	Portal beam shuttering & staging of required capacity in Viaduct	3 Sets

14.	Minimum number of pre-casting beds for U girders along with shutters and supporting for straight and curved spans.	6 Sets
15.	Trolley to transport U Girder of Suitable capacity over the erected span	2 Nos.

**Labours and Manpower to be deployed:**

The tenderer is expected to deploy the following numbers of Labours for viaduct works as indicated below:

WORKMAN DEPLOYMENT SCHEDULE																									
Sr. No.	Item Description	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
Pre- Cast Works																									
1	Initial CY Development Works	50	50	50	80	80	50																		
2	U-Girder		100	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	60	60	60	60	60
3	I-Girder				120	120	120	120	120	120	120	120	120	120	120	120	120	120	120						
4	Pier cap		40	80	80	80	80	80	80	80	80	80	80	80	80	60									
5	Misc Works@ CY				10	10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Sub Total	50	190	290	450	450	430	380	380	380	380	380	380	380	380	360	300	300	300	180	80	80	80	80	80
Viaduct works																									
1	Piling		50	80	90	90	90	100	100	100	100	100	100	100	50	50	50	60	60	50	30				
2	Cast-in-situ pile cap			20	80	100	120	100	100	100	100	100	100	100	100	100	100	100	80	80	60	40	20		
3	Cast-in-situ pier/ portal			20	60	100	120	120	120	140	120	120	100	120	60	60	80	80	100	140	140	60	20	20	20
4	Cast-in-situ portal beam			40	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	40	40	40	40		
5	Pier cap/ portal beam erection					10	20	20	40	50	30	30	30	20	20	20	60	40	30	30	50	40	40	30	30
6	U Girder erection			20	20	20	20	20	20	20	20	40	40	40	40	40	40	40	60	60	60	60	60	60	60
7	I Girder erection			20	20	20	20	20	30	20	30	30	30	20	10	30	40	60	40	20					
8	Structural steel fabrication & erection			20	20	20	20	20	20	20	20	40	40	40	40	40	40	40	60	60	60	60	60	60	60
9	Deck slab								40	80	60	60	60	60	60	60	60	70	90	90	90	90	90		
10	Miscellaneous works	20	20	20	20	20	20	20	20	20	15	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Sub Total	20	70	240	390	460	510	500	570	630	575	620	600	600	480	500	570	590	620	590	550	410	350	190	190
	Total	70	260	530	840	910	940	880	950	1010	955	1000	980	980	860	860	870	890	920	770	630	490	430	270	270

		<p>NOTE:</p> <ol style="list-style-type: none"> <li>1. Plant &amp; equipment and Labours indicated above is expected to be deployed at appropriate stage of the work. However, depending on the requirement to complete the work within the stipulated completion period the Tenderer shall deploy requisite manpower / machinery as circumstances warrant at no extra cost.</li> <li>2. Plant and machinery to be deployed above shall not be older than 5 years. In case of failure of any plant and machinery deployed at site the same shall be repaired / replaced within 7 days from the time of failure.</li> <li>3. The above type of plant and equipment (but not limited to) may be required for execution of the work. The contractor shall submit the details of plant &amp; equipment to be deployed in the above table within 14 days of issue of LOA to the Engineer for approval.</li> <li>4. Plant and equipment to be mobilized for the work shall be in good serviceable condition.</li> <li>5. The Tenderer shall furnish the details of Ownership /Lease/ Hire details for the equipments.</li> <li>6. The Plant &amp; equipment and number of labours listed above are the expected requirements and the cost of the same is deemed to be included in the quoted price. However, if they are found to be short and not adequate to complete the works as per key dates, then further Plant &amp; equipment and Labours to be arranged to accelerate the progress of work. Nothing extra shall be paid against additional deployment of the Plant &amp; equipment and Labours.</li> <li>7. All Plant &amp; equipment and Labours need to be mobilized simultaneously. Plant &amp; equipment and Labours as required as per the progress of the work shall be brought at site in advance or as directed by Engineer in charge.</li> <li>8. The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV, Forms of Tender.</li> </ol>
3.	Section 11 Tender Drawings	<p><b>REPLACE</b></p> <p>GENERAL ARRANGEMENT DRAWING FOR VIADUCT PORTION FOR CH. 11+000 Km TO CH. 13+500 Km Drawing Number O22077-BSRP-CR2-C-VD-GEN-10-2004</p> <p><b>With</b></p> <p><b>(Drawing Enclosed)</b></p> <p>GENERAL ARRANGEMENT DRAWING FOR VIADUCT PORTION FOR CH. 13+350 Km TO CH. 13+500 Km (PP70-PP73 &amp; P74-P77) Drawing Number O22077-BSRP-CR2-C-VD-GEN-10-2004</p>
4.	Section-7:  Clause: 26.14 of Particular Conditions of Contract	<p><b>Replace:</b></p> <p><b>26.14 Bonus for early completion:</b></p> <p>In the event that the Project Completion Date occurs prior to the Scheduled Completion Date, the Contractor shall be entitled to receive a payment of bonus equivalent to 1% (one per cent) of the Contract Price for per month (part of the month to be excluded) by which the Project Completion Date precedes the Scheduled Completion Date, but subject to a maximum of 3% (three per cent) of the Contract Price. Provided, however, that the payment of bonus, if any, shall be made only after the issue of the Completion Certificate. For the avoidance of doubt, the Parties agree that for the purpose of</p>

	<p>determining the bonus payable hereunder, the Contract Price shall always be deemed to be the amount and shall exclude any revision thereof for any reason.</p> <p>If the Contractor achieves completion of the whole of the Works prior to the intended Completion Date prescribed in Contract data (Extension of time pursuant to Clause 26.5/PCC or any other clause of these conditions will not be considered), the Employer shall pay to the Contractor a sum stated in the Contract data as bonus for early completion, for every calendar month which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations ordered by the Engineer and the time prescribed in Clause 26.4.</p> <p>For the purpose of calculating bonus payments, the time given in the Bid for completion of the whole works is fixed and unless otherwise agreed, no adjustment of the time by reasons of granting an extension of time pursuant to clause 26.5/PCC or any other clause of these conditions will be allowed. Any period falling short of completed month shall be ignored for the purpose of computing the period relevant for the payment of bonus.</p> <p><b>Amount of bonus for early completion</b></p> <p>1% of initial Contract Price per month (part of the month to be excluded) for <b>completion of whole works</b>.</p> <p><b>Maximum limit of bonus</b></p> <p>3% of Contract Price</p> <p>(For earlier completion of the work as a whole from the stipulated original date of completion as per contract, a bonus payment of as above shall be paid to the contractor. The engineer's decision is final and binding on the contractor so far as bonus payment to the contractor is concerned).</p> <p><b>With</b></p> <p><b>26.14 Bonus for early completion:</b></p> <p>In the event that the Project Completion Date occurs prior to the Scheduled Completion Date, the Contractor shall be entitled to receive payment of bonus as indicated in Contract Data Key dates (KD's), but subject to a maximum of 5% (Five per cent) of the Contract Price. Provided, however, that the payment of bonus, if any, shall be made only after the issue of the Completion Certificate. For the avoidance of doubt, the Parties agree that for the purpose of determining the bonus payable hereunder, the Contract Price shall always be deemed to be the amount and shall exclude any revision thereof for any reason.</p> <p>If the Contractor achieves completion of the whole of the Works prior to the intended Completion Date prescribed in Contract data (Extension of time pursuant to Clause 26.5/PCC or any other clause of these conditions will not be considered), the Employer shall pay to the Contractor a sum stated in the Contract data as bonus for early completion, which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations ordered by the Engineer and the time prescribed in Clause 26.4.</p> <p>For the purpose of calculating bonus payments, the time given in the Bid for completion of the whole works is fixed and unless otherwise agreed, no adjustment of the time by reasons of granting an extension of time pursuant to clause 26.5/PCC or any other clause of these conditions will be allowed. Any period falling short of completed month shall be ignored for the purpose of computing the period relevant for the payment of bonus.</p>
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		<p><b>Maximum limit of bonus</b></p> <p><b>5% of Contract Price.</b></p> <p>(For earlier completion of the work as a whole from the stipulated original date of completion as per contract, a bonus payment of as above shall be paid to the contractor. The engineer's decision is final and binding on the contractor so far as bonus payment to the contractor is concerned).</p>
5	<p>Section-6:</p> <p>Clause: 26.14/PCC ,</p> <p>Bonus for early completion of Contract Data</p>	<p><b>Replace:</b></p> <p>Amount of bonus for early completion:</p> <p>1% of initial Contract Price per month (part of the month to be excluded) for completion of whole works.</p> <p><b>Maximum limit of bonus 3% of Contract Price.</b></p> <p><b>With</b></p> <p>Amount of bonus for early completion:</p> <p>The incentives/ bonus for early completion shall be as indicated in Contract data, achievement of Key dates.</p> <p><b>Maximum limit of bonus 5% of Contract Price.</b></p>
6	<p>Annexure VIII – 1,</p> <p>Appendices</p> <p>APPENDIX -13</p> <p>OFFICE,</p> <p>ACCOMMODATION,</p> <p>EQUIPMENT AND</p> <p>PERSONNEL</p>	<p><b>Replace:</b></p> <ol style="list-style-type: none"> <li>1. Accommodation for the Employer &amp; Engineer (earmarked separately) with sufficient natural light &amp; ventilation with the layouts, designs, materials, appliances, personnel etc. shall be approved by Employer. S.no 1 (1 to 1.34, 1.36, 1.37 &amp; 1.38) – Deleted.</li> <li>2. Equipment for the use of Engineer and Employer – Deleted.</li> </ol> <p><b>With</b></p> <p>Contractor shall provide OFFICE, ACCOMMODATION, EQUIPMENT AND PERSONNEL as per APPENDIX -13, Enclosed herewith as <b>Annexure A.</b></p>
7	<p>Section VIII: Vol-1</p> <p>Employer's Requirement</p>	<p><b>Scope of work:</b></p> <p>Design and construction of Minor Bridge number 569, Size: 1 meter X 1.5 meter x 1.5 meter, of barrel length 22 meters. At chainage. 11+202Km.</p>