

# **CORRIGENDUM - 4**

SI. No.	Section		Existing				Amended As							
		work and documer The inter	ty by owning at least 50% of the required fol I the remaining 50% can be deployed on leants (Commitment agreements etc.,) for avainding tenderer/firm/company/Joint venture sets of the following minimum requirement of r	ase/hire for all wo ilability for this v should furnish de	orks provided, the relevant work are to be furnished:	me pr co be Th	The Contractor shall ensure in advance the availability of necessary plant and machinery meet the program requirements as and when the work fronts are available to achieve the progress as per the specified milestones and to complete the work within the stipulate completion period. Penalty, as specified in note no. 4 of Appendix - 5 of Section 8A Part – 1 we be imposed for non-deployment of minimum key plant and equipment. The tenderer shall deploy additional machinery as circumstances warrant at no extra cost meet the targets.							
			APPENDIX-05	5			APPENDIX-05							
			PLANT AND EQUIP	MENT				PLANT AND EQUIPMENT						
			Key and Critical Equipments				Key and	Critical Equipments						
		S. No.	Type of Equipment required for the work	Proposed to be Deployed (Minimum)	Remarks		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.	12 nos.	50% own+50% Lease / Hire		1.	Piling Equipment Rotary Rig / Hydraulic Rig for soil boring and rock boring including diamond bits for rock boring.	12 nos.					
		2.	Piling rig (Tripod) with conventional winch	24 nos.	50% own+50% Lease / Hire		2.	Piling rig (Tripod) with conventional winch	24 nos.					
	Section-2 Clause 3.3a	3.	Fully Automatic and Computerized Batching Plant -1 nos. (2 of 60 Cum / h) and (2 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.	4 nos.	50% own+50% Lease / Hire		3.	Fully Automatic and Computerized Batching Plant -1 nos. (2 of 60 Cum / h) and (2 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.	4 nos.					
1		4.	Concrete boom placers	4 nos.	50% Own+50% Lease / Hire		4.	Concrete boom placers	4 nos.					
		5.	Concrete pumps with sufficient pipes	8 nos.	50% own+50% Lease / Hire		5.	Concrete pumps with sufficient pipes	8 nos.					
		6.	Transit Mixers	24 nos.	50% own+50% Lease / Hire		6.	Transit Mixers	24 nos.					
		7.	Launching Girder to Launch Box segments as per site requirements (Maximum permissible age in years is 10 Years). The suitable launcher for U-girder launching fully automatic, capable of negotiating 200m radius curve and 3% gradient, speed of trolly 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.)	6 nos.	50% own+50% Hire / Lease		7.	Launching Girder to Launch Box segments as per site requirements (Maximum permissible age in years is 10 Years). The suitable launcher for U-girder launching fully automatic, capable of negotiating 200m radius curve and 3% gradient, speed of trolly 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.)	4 Nos. for Box Girder 2 Nos. for U-Girder					
		8.	Crane of suitable capacity for Erection of LG Girders, $$ / U Girders / Box Girders.	4 nos.	50% own+50% Hire / Lease		8.	Crane of suitable capacity for Erection of LG Girders, / U Girders / Box Girders.	4 nos.					
		9.	Cranes in casting yard / site of suitable capacity	6 nos.	50% own+50% Hire / Lease		9.	Cranes in casting yard / site of suitable capacity	4 nos.					
		10.	Gantry of suitable capacity in casting yard	10 nos.	50% own+50% Hire / Lease		10.	Gantry of suitable capacity in casting yard 8 nos.						
			Road work, Embankment an	d cutting works.				Road work, Embankment and cutting works.						
				50% own+50% Lease / Hire		11.	Hydraulic excavator (1 cum bucket)	12 nos.						
		12.	Tippers / trucks (10 / 14 cum capacity)	60 nos.	50% own+50% Lease / Hire		12.	Tippers / trucks (10 / 14 <u>cum</u> capacity)	60 nos.					
		13.	Dozer of suitable capacity	10 nos.	50% own+50% Lease / Hire		13.	Dozer of suitable capacity	10 nos.					



S. No.	Type of Equipment required for the work	Proposed to be Deployed (Minimum)	Remarks
14.	Front end loader with suitable capacity	10 nos.	50% own+50% Lease / Hire
15	Vibratory roller 8 / 10-ton capacity	10 nos.	50% own+50% Lease / Hire
16.	Smooth wheeled roller 10-ton capacity	6 nos.	50% own+50% Lease / Hire
17.	Water tanker of 6000 lit capacity	10 nos.	50% own+50% Lease / Hin
18.	Motor Grader	10 nos.	50% own+50% Lease / Hin
19.	Back hoe loader of suitable capacity	6 nos.	50% own+50% Lease / Hir
20	Plate Vibratory Roller	5 nos.	60% own+40% Lease / Hir
21	Slope Compactor Roller	6 nos.	50% own+50% Lease / Hir

(I) Other Plant and equipment to be deployed The Tenderer shall furnish the details of Own basis or Lease / Hire basis for the following equipment

SI. No.	Type of Equipment Required for the Work	Proposed to be Deployed (Minimum)	Remarks
1	Pile cap Shutters	24 sets	
2	Pier and pier cap Shutter, staging and supporting arrangement for all type of Piers	24 Sets	
3	Pre cast Post tension shutter staging support for Casting of Pier caps	10 Beds with Shutters	
4.	Pre cast post-tension I Girder Beds along with necessary shutter and support arrangements	8 Beds with Shutters	
5.	Portal shuttering & staging of required capacity in Viaduct	8 nos.	
6.	Minimum number of pre-casting beds for Box / U girders along with shutters and supporting for straight and curved spans.	9 nos. of long line and 9 nos. for S1 Segments.	
7.	250 MT or more capacity suitable cranes for erection of I Girders / RCC Portals, super structures of Viaduct work	4 nos.	
8	Trolley to transport U / Box Girder of 200 MT weight over the erected span	4 nos.	
9.	Trailers / MAV for carrying U Girder / Box segments of Suitable capacity as per site requirement	12 nos.	

S. No.	Type of Equipment required for the work	Proposed to be Deployed (Minimum)
14.	Front end loader with suitable capacity	10 nos.
15	Vibratory roller 8 / 10-ton capacity	10 nos.
16.	Smooth wheeled roller 10-ton capacity	6 nos.
17.	Water tanker of 6000 lit capacity	10 nos.
18.	Motor Grader	10 nos.
19.	Back hoe loader of suitable capacity	6 nos.
20	Plate Vibratory Roller	5 nos.
21	Slope Compactor Roller	6 nos.

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SI. No.	Type of Equipment Required for the Work	Proposed to be Deployed (Minimum)
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6.	Minimum number of pre-casting beds for Box / U girders along with shutters and supporting for straight and curved spans.	9 nos. of long line and 9 nos. for S1 Segments.
7.	250 MT or more capacity suitable cranes for erection of I Girders / RCC Portals, super structures of Viaduct work	4 nos.
8.	Trolley to transport U / Box Girder of 200 MT weight over the erected span	4 nos.
9.	Trailers / MAV for carrying U Girder / Box segments of Suitable capacity as per site requirement	12 nos.



		SI. No.	Type of Equipment Required for the Work	Proposed to be Deployed (Minimum)	Remarks		SI. No.	Type of Equipment Required for the Work	Proposed to be Deployed (Minimum)					
		10	Trailers / MAV for carrying   Girders / Pier caps and other Precast elements of Suitable capacity as per site requirement	1			10	Trailers / MAV for carrying I Girders / Pier caps and other Precast elements of Suitable capacity as per site requirement	4 nos.					
		11	Gantry for parapet erection	4 sets			11	Gantry for parapet erection	4 sets					
		12.	Man-lift for adequate height	10 nos.			12.	Man-lift for adequate height	10 nos.					
		13.	Parapet, Crash Barriers & Friction slab Shutters	6 Sets			13.	Parapet, Crash Barriers & Friction slab Shutters	6 Sets					
			Road work, Embankment and cutti	ing works.				Road work, Embankment and cutting work	s.					
		14	Crane 5 MT capacity	4 nos.			14	Crane 5 MT capacity	4 nos.					
		15.	Crane 35 MT capacity	10 nos.			15.	Crane 35 MT capacity	8 nos.					
		16.	Generators 125 KVA	10 nos.			16.	Generators 125 KVA	10 nos.					
		17	Pneumatic road roller	3 nos.			17	Pneumatic road roller	3 nos.					
		18	Tandem road roller	3 nos.			18	Tandem road roller	3 nos.					
		19	Survey equipment's: Total stations and auto level	5 sets			19	Survey equipment's: Total stations and auto level	5 sets					
2	Section-6: Contract Data SI. No. 24 Page No 112	1% of the Award.	e Accepted Contract Amount after six months co	mmencement of work as	s per Letter c	of F F	Section-6: Contract Data 1% of the Accepted Contract Amount after six months commencement of work as per Letter of Av However, the IPCs for the amount less than 1% shall be considered on case-to-case bas the Employer based on site condition, weather conditions, financial constraints, progres work etc.							
3	Section 9 Price Schedules	Schedule-C consists of Lump sum provision to be operated for incidental and unforeseen items likely to be necessary while executing the work. These items will be executed under schedule of rates 2021-22, published by KPWD. The cost under this Schedule stands fixed at Rs 19,00,00,000/- and this amount is provided as fixed Amount in the summary of Financial Bid/Price Schedule					o be necess oublished by	consists of Lump sum provision to be operated for incident ary while executing the work. These items will be executed u KPWD. The cost under this Schedule stands fixed at Rs 1 as fixed amount in the summary of Financial Bid/Price Sche	under <b>latest schedule of rates</b> 9,00,00,000/- and this amount					
4	Page No. 243 Section 8A: Part-1 1.1 Scope of the Work: A. Viaduct Work: Cl. 41.	girder ar	nts are permitted in Pile, Pile cap, raft, piers, pier nd portal beams. However, mechanical couplers i np and raft without extra cost.			y j	Laps joints are permitted wherever required. However, mechanical couplers in place of joints may be permitted by the Employer without any extra payment, with the specific appro of Employer/Engineer for the specific elements / members / works / locations on case-to-c basis.							



	Appendix 04 experiention short and have a sitisfier. The Key Desitions (ast limited to) and	
	Appendix 04 organization chart and key positions The Key Positions (not limited to) and corresponding qualification and experience are as under:	Appendix 04 organization chart and key positions The qualification and experience are as under:
Section-8A Part-1	SI. No. 13. Senior Civil Engineer of organization chart and key positions Min.No.Required - 15 Nos	SI. No. 13. Senior Civil Engineer of organization chart Min.No.Required - <b>16 Nos</b>
APPENDIX-04 Organization chart and key positions	SI. No. 14. Civil Engineer of organization chart and key positions Min.No.Required - 28 Nos	SI. No. 14. Civil Engineer of organization chart and key Min.No.Required - <b>26 Nos</b>
	SI. No. 16. Junior Civil Engineer of organization chart and key positions Min.No.Required - 50 Nos	SI. No. 16. Junior Civil Engineer of organization chart a Min.No.Required - <b>48 Nos</b>
	SI. No. 18. Safety Engineer / Officers of organization chart and key positions Min.No.Required - 14 Nos	SI. No. 18. Safety Engineer / Officers of organization of Min.No.Required - <b>10 Nos</b>
Clause-40/cc Price Adjustment	CLAUSE-40/CC PRICE ADJUSTMENT 40.1.6 Change In Law Change in Law means the occurrence or coming into force of the following, at any time after the last Date of submission of tender: Any new Central and State Taxes, duties, cess, levies, which is imposed or any existing Central and State Taxes, duties, cess, levies & royalties are withdrawn after the due date of submission of tender and which impacts the performance of the contractor with increased cost, or which results in extra financial gains to the contractor due to decreased cost in execution of contract. Such additional or reduced cost shall be certified by the Engineer after examining records provided by the contractor and shall be paid by or credited to the employer. However, change in the rate of any existing tax will not be considered as change in Law.	CLAUSE-40/CC PRICE ADJUSTMENT 40.1.6 Change In Law Change in Law means the occurrence or coming into f Date of submission of tender: Any new Central and State Taxes, duties, cess, levies State Taxes, duties, cess, levies & royalties are withdr and which impacts the performance of the contractor w financial gains to the contractor due to decreased cost reduced cost shall be certified by the Engineer after ex- and shall be paid by or credited to the employer. Change in the rate of any existing tax (Including G additional or the reduced cost shall be paid by or c
New Clause- 29.1/ITT- Performance Security	Within 28 days of receipt of the Letter of Acceptance, the successful tenderer shall deliver to the Employer a Performance Security in any of the forms given below for an amount equivalent to <b>10%</b> of the Contract price plus additional security for unbalanced tenders (additional security at 50% of the estimated cost of the unbalanced component) in accordance with Clause 25.5 of ITT and Clause 43 of the Conditions of Contract.	Within 28 days of receipt of the Letter of Acceptance Employer a Performance Security in any of the forms the Contract price plus additional security for unbalance estimated cost of the unbalanced component) in accord the Conditions of Contract.
Section – 8A : Part-2, Employer's Requirement– general information and scope of work	<b>4.3 ROAD UNDER BRIDGES (RUB) / ROAD OVER BRIDGES (ROB)</b> The Site includes the following RUB (Road Under Railway line) / ROB (Road Over Railway line):	<b>4.3 ROAD UNDER BRIDGES (RUB) / ROAD OVER</b> The Site includes the following RUB (Road Under Rai
Tender Drawing No. KRIDE/BSRP/C4/TD/ MRUB /13/05 - MINOR RUB DETAILS (CORRIDOR - 04)		
	APPENDIX-04 Organization chart and key positions Clause-40/cc Price Adjustment New Clause- 29.1/ITT- Performance Security Section – 8A : Part-2, Employer's Requirement– general information and scope of work Tender Drawing No. KRIDE/BSRP/C4/TD/ MRUB /13/05 - MINOR RUB DETAILS	Section-8A Part-1 APPENDIX-04 Organization chart and key positions       SI. No. 13. Senior Civil Engineer of organization chart and key positions         Min.No.Required - 15 Nos       Min.No.Required - 15 Nos         Section-8A Part-1 APPENDIX-04 Organization chart and key positions       SI. No. 14. Civil Engineer of organization chart and key positions         Min.No.Required - 50 Nos       SI. No. 16. Junior Civil Engineer of organization chart and key positions         Min.No.Required - 50 Nos       SI. No. 18. Safety Engineer / Officers of organization chart and key positions Min.No.Required - 14 Nos         Clause-40/cc Price Adjustment       CLAUSE-40/CC PRICE ADJUSTMENT 40.16 Change In Law Change in Law means the occurrence or coming into force of the following, at any time after the last Date of submission of tender: Any new Central and State Taxes, duties, cess, levies which is imposed or any existing Central and State Taxes, duties, cess, levies & royalties are withdrawn after the due date of submission of tender and which impacts the performance of the contractor with increased cost, or which results in extra financial gains to the contractor due to decreased cost in execution of contract. Such additional or reduced cost shall be catified by the Engineer after examining records provided by the contractor and shall be paid by or credited to the employer. However, change in the rate of any existing tax will not be considered as change in Law.         New Clause-29.1/ITT- Performance Security at 50% of the contract price plus additional security for unbalanced lenders (additional security at 50% of the contract price plus additional security for unbalanced lenders (additional security at 50% of the contract price plus additional security at 50% of the contract pri



he Key Positions (not limited to) and corresponding art and key positions key positions art and key positions chart and key positions to force of the following, at any time after the last ies, which is imposed or any existing Central and hdrawn after the due date of submission of tender r with increased cost, or which results in extra ost in execution of contract. Such additional or examining records provided by the contractor GST) will be considered as change in law and r credited to the Employer, as the case may be. ance, the successful tenderer shall deliver to the ms given below for an amount equivalent to 3% of alanced tenders (additional security at 50% of the cordance with Clause 25.5 of ITT and Clause 43 of R BRIDGES (ROB) Railway line)/ ROB (Road Over Railway line):

		MINOR RUB DETAILS (CORRIDOR - 04)						MINOR RUB DETAILS (CORRIDOR - 04)											
			IR BSR ainage Chaina		Level	Exç	g. Bridge	Proposed Bridge		S		IR hainage	BSRP Chainage	Ex.Bridge No.	Level		Exg.Bridge	Propo	osed Bridge
			CHA	INASANDRA TO	RAJANUKU	NTE SECTION	E SECTION (CH: 03/423 to CH:25/848)				CHANNASANDRA TO RAJANUKUNTE SECTION (CH: 03/423 to CH:25/848)								
		1 04	4/800 25.94	9 539A	At Grade	RCC Box	1 x 20.295x5.5	RCC Box	2x7.50x5.5		1	04/800	25.949	539A	At Grade	RCC Box	1 x 20.29 x5.5	RCC Box	2 x 7.50 x 5.5
		2 05	5/800 26.95	0 538A				RCC Box	1 x 9.50 x 7.0		2	6/630	27.775	538	At Grade	RCC Box	3 x 7.35 + 3 x 4.72	RCC Box	1 x 6.0 x 7.0
		3 10	0/459 31.63	0 529A	At Grade	RccBox	1 x 5.0 x 3.75	RCC Box	1 x 5.0 x 4.15		3	10/459	31.630	529A	At Grade	RCC Box	1 x 5.0 x 3.75	RCC Box	1 x 5.0 x 4.15
		4 11	1/375 32.53	5 528A	At Grade	RccBox	2x8.75x5.5	RCC Box	2x8.75x5.5		4	11/375	32.535	528A	At Grade	RCC Box	2 x 8.75 x 5.5	RCC Box	2 x 8.75 x 5.5
9	Section-8A: Part-1, EMPLOYER'S REQUIREMENT- GENERAL INFORMATION AND SCOPE OF WORK	<b>A. VIADUC</b> 59) Maintai	<ul> <li>1.1 DETAILED SCOPE OF THE WORK</li> <li>A. VIADUCT WORK</li> <li>59) Maintaining including watch &amp; ward and repairs of the barricading provided as per above item no.81 including cost of all contractors' men, materials, tools and plants required in this regard.</li> </ul>					<b>A</b> 59	. <b>VI</b> 9) N	ADUCT /laintainir	WORK	•	& ward a	•	s of the barricading s and plants require		•		
10	SECTION-3: QUALIFICA-TION INFORMA-TION & BIDDING FORMS	with India a not from su Authority ar contractor i	Form 3 – C2 We/I,, having registered office at do hereby certify that "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the competent Authority and will not sub-contractor any work to a contractor from such countries unless such contractor is registered with the competent Authority. I hereby certify that his bidder fulfils all						We/I,, having registered office do hereby certify that "I have read the clause reg restrictions on procurement from a bidder of a country which shares a land border with India a sub-contracting to contractors from such countries; I certify that this bidder is not from such a c or, if from such a country, has been registered with the competent Authority and will not <b>sub-co</b> any work to a contractor from such countries unless such contractor is registered with the com Authority. I hereby certify that <b>this</b> bidder fulfils all requirements in this regard and is eligible							the clause regar der with India and t from such a cou will not <b>sub-cont</b> ed with the compe- and is eligible to			
		-	quirements in this regard and is eligible to be considered. (Where applicable, evidence of lid registration the Competent Authority shall be attached.)" considered. (Where applicable, evidence of valid registration the Competent Authority shall be attached.)"										nt Authority shal						
11	Section-8A:PART-2, EMPLOYER'S REQUIRE-MENT- GENERAL INFORMA- TION AND SCOPE OF WORK	The Site ind locations m GAD after a	nay change	ollowing BSF as per the si work. Noth	te condition ing will be	ons, avail	ability of land	- 4. The Proposed Station ad etc., during finalisation of nange/cancellation of station			<b>4.4 A.4 BSRP/RAILWAY STATIONS</b> The Site includes the following BSRP/Railway stations of corridor - 4. The Proposed Station loc may change as per the site conditions, availability of land etc., during finalisation of GAD after awa the work. Nothing will be paid extra for the change/cancellation of station locations or introduct new <b>At Grade</b> stations.								of GAD after awar
12	Section-9 Price Schedules								-			864 to 87 document		t availat	ole. These page n	umbers	shall be treated		



# as

						Quantity	y of work perfor	med		9		Г						Quantity	of work perfe	ormed		Φ
			×	yer	<u>`</u>	entioned in Qualit	fication of the T		se 3.2)	eferenc d Date, Role in intract ipation				×	yer		(As ment	ioned in Qualifi			ise 3.2)	aferenco d Date, Acle in Intract pation
	Section 3 –	Year	Name of Work	Name of Employer	Completion of PSC Super Structure Launching (Km)	Completion of 40 m Pre-Cast PSC Girder/ Steel I Girder	Earthwork in Cutting and Embankment (In Cum)	RCC and PSC Concrete (In Cum)	Detailed Design Experience	Remarks (Indicate contract Reference contract no., Award Date, Completion Date, Role in Contract. Total Contract Amount, JV Participation Proportion)			Year	Name of Work	Name of Employe	Completion of PSC Super Structure Launching (Km)	Completion of 40 m Pre-Cast PSC Girder/ Steel I Girder	Earthwork in Cutting and Embankment (In Cum)	Blanketing work (In Cum)	RCC and PSC Concrete (In Cum)	Detailed Design Experience	Remarks (Indicate contract Referen Contract no., Award Date Completion Date. Role in Comtract, Total Contract Amount, V Participation Proportion)
13	Qualification Information and	2017- 2018										-	2017- 2018									
10	Bidding Forms	2018-										-	2018- 2019		-							
	Clause 1.4 Table	2019										-	2019-									
		2020										-	2020 2020-									
		2021										-	2021 2021-									
		2021- 2022											2022						$\mathbb{N}$			
		Clause: III.	B.I. Pag	ge No.	.237.								ing lines						-	01.1	-	
								nes is at	four lo	cations and the d	etails from	<b>SI. 1</b>			ocati eelali	i <b>on</b> ige Stat		hainage (-)0.63	From 5		<b>age To</b> .481	No of Stabling Lines
		Employer's					elow:-					2	A	fter He	elalio	ge Stati	on	0.158			587	4
	KM: (-)0.635 to KM: (-)0.481- 2 nos. KM: 0.158 to KM: 0.587 - 4 nos.						3 Before Sing			ngen Static		nara	2.367	,	2.624		1					
14	Section - 8A. Part-1	KM: 2.367										4		Hus	kur S	Station		5.065			792	5
		KM: 19.037 Under Hea			10 - 21	105.						5				dur Stat		12.60			917	1
					s. pocke	t tracks ar	nd cross	overs as	show i	n the GAD are in	the scope	7				undi St ndra St		19.03 29.14			775 035	2
		of work.	,	0	, 1							8				inte Sta		45.98			672	2
														or rug								
15	PageNo.385 Section 8A: Part-2- Employers Requirement General Information & Scope of Work	Section E,	CI.7.12	. Nois	se barrier:	s						Polyca sheet	to be ins Most effe Light in v Impact F other imp Transpar High Ter UV resis break wi Non-Cor Fire resis Specific 100% re	(PC) s talled veight cesista pact ei rent – mperat tant o th stro rosive stant - Gravit cyclab	heet n sou nt – ther. Trans ure r n boi ng su Clas y of 1 le – F	is prop und rec Strong slucent esistan th side un s B Fin I.2g/cm Eco-frie	duction ar and impa materials t from 40 s to withs e Resista	nd can re act resist s provide °C -100º stand ad	duce so ant. Do 88% lig C verse w	ound up es not s ght trans	to 36dB( hatter w smission conditior	ith stone impact or any capability ns and do not crack or
												-	mouldab Easy in i	le nstalla	tion a	and ma	n design iintenanc galvaniz	e				al bends, versatile and



						Т	• otal E	Construction Specification The construction consists of MS/Galvanized s specially designed aluminium pressure pad wi sheet tightly. The standard Polycarbonate noise rating. All Polycarbonate sheets are UV coated The Height of the noise barriers required at all 1m concrete parapet Estimated quantity for elevated viaduct portion is	th rubber gas barriers are d and have war sections – 1.	ket use to grip p lesigned to achie rranty upto 10yea .5m – 2.0m Aver	oolycarbonate ve 22-36 STC ars.
		SI. Stage Payments No.	Percentag e of Cost of Schedule - A	Payable unit	Percentage breakup (Weightage s)		SI. No.	Stage Payments	Percentag e of Cost of Schedule - A	Payable unit	Percentage breakup (Weightages)
		1 2	3	4	5		1	2	3	4	5
		<ul> <li>Commissioning of Casting Yard (Contractor and Engineer shall make joi program of commissioning of various activitie of casting yard. Payment shall be released of monthly basis based onprogress achieved a certified by Engineer).</li> </ul>	es In	Proportionately till Commissioning	1%		1.	Commissioning of Casting Yard (Contractor and Engineer shall make joint program of commissioning of various activities of casting yard. Payment shall be released on monthly basis based onprogress achieved as certified by Engineer).		Proportionately till Commissioning	1%
		2. Pile Foundations including testing of Piles, routine pile load tests, ND Tests, Soil Boring Trial trenching, GPR Survey at specific locations etc.		Per Pile Group			2.	Pile Foundations including testing of Piles routine pile load tests, ND Tests, Soil Boring Trial trenching, GPR Survey at specific locations etc.	3	Per Pile Group	15%
	Section 0 Drive	3. Pile Caps, Open Foundations including PCC shoring, Plate Load Test.	,	Per Pile Cap / Open Foundations	10%		3.	Pile Caps, Open Foundations including PCC shoring, Plate Load Test.	_	Per Pile Cap / Open Foundations	10%
16	Section 9 Price Schedules	<ul> <li>4. Piers including Pier Caps, Portal, Eccentric Piers, Precast Pier Caps &amp; Pre-stressing, Pedestals, Median, Crash Barrier &amp; Shear</li> </ul>	96% of the	per pier	15%		<ul> <li>4. Piers including Pier Caps, Portal, Eccentric Piers</li> <li>4. Precast Pier Caps &amp; Pre-stressing, Pedestals Median, Crash Barrier &amp; Shear Keys/Stoppers.</li> <li>5 Casting of segments of Box Girders / U Girders</li> </ul>		3	per pier	15%
		Keys/Stoppers.	rs / cost of				5.	I-Girders including parapet.	COST OF	per spari	30%
		<ul> <li><sup>5.</sup> I-Girders including parapet.</li> <li>6. Supply and Erection of Composite Ste Girders/open web girder for viaduct.</li> </ul>	Schedule-A	per span	30% 3%			Schedule-A			
		<ul> <li>Erection of segments of Box Girders /</li> <li>7. Girders / I-Girders including parapet includir pre-stressing, grouting etc., all complete.</li> </ul>	9	per span	13%		6.	(On submission of Indemnity bond etc.) b. Fabrication- 20% (of 3%) c. Transportation / Erection / Launching -		per span	3%
		<ul> <li>Bearing - Supply and fixing for all spar including Elastomeric Bearing and POT-PTF</li> <li>8. Bearings. Note: 50 % on supply and 50% on fixing.</li> </ul>		per span	2%		20% (of 3%) d. Completion in all respects- 20% (of 3%) Erection of segments of Box Girders / U Girders	-			
		Providing & Fixing Expansion Joints (Omeg	a				7.	/ I-Girders including parapet including pre- stressing, grouting etc., all complete.		per span	13%
		<ul> <li>9. Joints and Strip Seal Joints) Note: 50 % on supply and 50% on fixing.</li> <li>Misc. Items:</li> </ul>		per span	1%		8.	Bearing - Supply and fixing for all spans including Elastomeric Bearing and POT-PTFE Bearings.		per span	2%
		10. Completion of the work in all respects including	g	per span	7%			Note: 50 % on supply and 50% on fixing.			



	railing, G.I. Brackets for cable, earthing, manholes, rainwater harvesting, clearing of sites in all respects so that area is in traffic worthy condition, drainage pipes, hand rails, drainage spouts, down take pipes including connecting to rain water harvesting, Traffic/Cautioning Sign Boards, Road Diversions, Setting out, Span Load testing of Girders, Dismantling and transportation, etc.			9.	<ul> <li>Providing &amp; Fixing Expansion Joints (Omega Joints and Strip Seal Joints)</li> <li>Note: 50 % on supply and 50% on fixing.</li> <li>Misc. Items:</li> <li>Completion of the work in all respects including railing, G.I. Brackets for cable, earthing, manholes, rainwater harvesting, clearing of sites in all respects so that area is in traffic</li> </ul>
11	All other balance works to complete the entire work as per the scope & specifications and handing over of viaduct to K-RIDE.	LS	3% 100%	10.	worthy condition, drainage pipes, hand rails, drainage spouts, down take pipes including connecting to rain water harvesting, Traffic/Cautioning Sign Boards, Road Diversions, Setting out, Span Load testing of Girders, Dismantling and transportation, etc.
				11.	All other balance works to complete the entire work as per the scope & specifications and handing over of viaduct to K-RIDE. TOTAL
		à		•	



ga	per span	1%
ng, of ffic ils, ng, ad of	per span	7%
ire nd	LS	3%
		100%