			ic, Construction and As Bu		-	
Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
	Inception Report	5.1.1	Reconnassaince Survey and Inception Report	5		On acceptance o Survey and Inception Report
	Validation of Survey Data, Preliminary alignment and power supply points.		Report on Site Investigation of Feasibility and verification of data furnished by the Employer			On acceptance o investigation o feasibility and verification dat Report
Validation of Survey Data, Simulation of	Simulation of train Operation and Finalization of System Designs	5.1.3	Finalization of Power Rating of Traction Equipment, sizing of OHE conductors and components, System Designs of compatibility of Signal & Telecom installations and Earthing and Bonding of the System	10	t Price	On acceptance o Simulation Report
train operation, Designs and Drawings : Basic, Construction and As Built.	Basic Designs of Traction Supply Equipment, conductor & Overhead equipment and SCADA, Protection System and Earthing and Bonding	5.1.4	On approval of the Final Design of Traction Equipment, OHE, Earthing and Bonding and SCADA	25		On acceptance of Basic Designs
	Construction designs and Drawings for	5.1.5	Final Lay Out Plans and construction Drawings		-	
	(i)Traction Supply and OHE			35		On acceptance of Construction designs and Drawings on Prorata basis
	(ii)SCADA			15		On acceptance of Construction designs and Drawings
	As Built Designs and Drawings	5.16	As Built Designs, Drawings and all residual Works	5		on Prorata basis
			Total	100		

Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		rks	5.2.1.1	On ground clearance, Earthwork, levelling and filling, installation of Ground mat Foundations of Structures & Equipment, Fencing, Water Supply and Sewaerage	55		-station on pro-rata
Traction Power Supply	Schedule 5.2.1	Substation: Civil Works	5.2.1.2	On completion of balance works such as Sub-Station Buildings, Transformer Oil sumps, Baffle Wall, roads access pasages and finishing works.	40	2.3% of the Contract Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
acti	Š					ó of	ide f
Tr		Traction	5.2.1.3	On completion of Earthing & Bonding and Lighting Protection Works, spreading Gravel and final dressing of switchyard and landscaping.	5	2.3%	ayment shall be m
				Total	100		The pa

Schedule 5.2.1 - Contract Price Weightage for Interim Payments for Construction of Traction Substations : Civil Works: Buildings, Cable Trenches, Earth Mats Foundation, Fencing.

Name of Bidder

Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		or stringing	5.2.2.1	Supply of steel work in Contractor's depot at site and acceptance by the Engineer	30		ro-rata basis.
		nd Conducte	5.2.2.2	On Completion of steel work Erection	10		o-station on pr
Traction Power Supply	Schedule 5.2.2	sing for the second sec	On Supply of Hardware, conductors and Busbars	35	0.4% of the Contract Price	Traction Sul	
Traction P	Schedi	Traction Substation: Steel Structures, Bus bars and Conductor stringing	5.2.2.4	On completion of erection of Busbars, conductors etc the connections and completion of all the related works in outdoor switch yard including Earthing and Bonding.	25	0.4% of the C	The payment shall be made for each Traction Sub-station on pro-rata basis.
	I I			Total	100		

Schedule 5.2.2 - Contract Price Weightage for Interim Payments for Construction of Traction Substations: Erection of Steel work, Bus bars and Conductor stringing

Name of Bidder

Sc	hec	dule 5.2	.3 - Contrac	t Price Weightage for Interim Payr Installation of Traction Trans			onstruction of Substations:
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		asformers	5.2.3.1	On submission of Bill of Lading	60		n on pro-tata
· Supply	5.2.3	of Traction Trar	5.2.3.2	On Receipt of Complete Traction Transformer at Site of Permanent Works and acceptance by the Engineer	20	ract Price	action Sub-station
Traction Power Supply	Schedule 5.	Traction Substation: Installation of Traction Transformers	5.2.3.3	On Completion of Erection of Transformers on its foundation and completion of balance works	17	22.1% of the Contract Price	e made for each Tr basis.
		Traction Substat	5.2.3.4	On successful completion of test and pre-commissioning procedure	3	2	The payment shall be made for each Traction Sub-station on pro-rata basis.
	1			Total	100		

Name of Bidder

		Schedu	ıle 5.2.4 - C	Contract Price Weightage for Interin Substations: Installation of Auto-7			1 Construction of
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		lers	5.2.4.1	On submission of Bill of Lading	60		o-rata basis.
ply		Traction Substation: Installation of Auto-Transformers	5.2.4.2	On Receipt of Complete Auto- Transformer at site of Permanent Works and acceptance by the Engineer	20	Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
Traction Power Supply	Schedule 5.2.4	Installation of	5.2.4.3	On Completion of Erection of Transformers on its foundation and completion of balance works	17	10.1.% of the Contract Price	r each Traction S
Trac	•	ion Substation:	5.2.4.4	On successful completion of test and pre-commissioning procedure	3	10.1.%	shall be made fo
		Tract		Total	100		he payment

Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		, cables	5.2.5.1	On receipt of Switchgear and ancillary equipment at Site Stores of the Contractor and acceptance by the Engineer	70		n on pro-rata
ıpply		of Switchgear	5.2.5.2	On erection of conductors and completion of installation equipment.	25	t Price	cion Sub-statio
Traction Power Supply	Schedule 5.2.5	Traction Substation: Installation of Switchgear, cables and Ancillary's Works	5.2.5.3	On successful completion of all works related to testing and pre- commissioning procedure for the traction substation.	5	3.8 % of the Contract Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
		ion Substa				3.6	at shall be r
		Tracti		Total	100		The paymer

Schedule 5.2.5 - Contract Price Weightage for Interim Payments for Construction of Substations : Installation of Switchgear, Cables and Ancillary Equipment

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Schedule5.2.6 - Contract Price Weightage for Interim Payments for Construction of Traction Substations: Tests and Commissioning

Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Supply	5.2.6	Substations: Test and Commissioning	5.2.6.1	On completion of all mechanical adjustments, earth Tests, proving of circuits, continuity and Insulation tests proving of all features of Operation, Safety Interlocks and Protection.	70	0.5% of the Contract Price	The payment shall be made for each Iraction Sub-station on pro-rata basis.
Traction Power Supply	Schedule 5.	stations: Test a	5.2.6.2	On Charging with Power and Commissioning	30	0.5% of	The paymen Traction Sub-
		Traction Sub		Total	100		

Name of Bidder

Schedule 5.2.7 - Contract Price Weightage for Interim Payments for Construction of Sectioning, Sub- Sectioning and Auto-Transformer Posts: Civil Works, Buildings, Cable trenches, Steel structures and Outdoor Conductors

Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Supply	5.2.7	Sectioning, Sub-Sectioning and Auto-Transformer Posts: Civil Works	5.2.7.1	On ground clearance, Earthwork, levelling and filling, installation of Ground mat, Foundations of Equipment, Structures and fencing	60	Contract Price	The payment shall be made for each post on pro-rata basis.
Traction Power Supply	Schedule 5.2	sub-Sectioning and Au Civil Works	5.2.7.2	On completion of balance Civil, Structural works , Earthing and Bonding , and finishing works.	40	2.8 % of the Contr	t shall be made for eac
		Sectioning, S		Total	100		The paymen

Name of Bidder

Schedule 5.2.8 - Contract Price Weightage for Interim Payments for Sectioning, Sub-sectioning and Auto-transformer posts: Installation of Switchgear, Cables and Ancillary Equipment

Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		ır, cables and Vorks	5.2.8.1	On receipt of Switchgear and ancillary equipment at Site Stores of the Contractor and acceptance by the Engineer	70		oro-rata basis.
wer Supply	le 5.2.8	n of Switchgea and Ancillary V	5.2.8.2	On Erection of Equipment and conductors at site of Permanent Works and its connections	25	ontract Price	r each post on F
Traction Power Supply	Schedule	SP, SSP and ATP: Installation of Switchgear, cables and ancillary equipment and Ancillary Works	5.2.8.3	On successful completion of all the works related to the Supply Control Post and successful completion of pre- commissioning tests	5	4.0% of the Contract Price	The payment shall be made for each post on pro-rata basis.
		SP, SSP ar an		Total	100		The paym

Name of Bidder

				ice Weightage for Interim Payments for Cons ning, Sub-Sectioning and Auto-Transformer Transformers			
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		ulation of	5.2.9.1	On submission of Bill of Lading	60		basis.
pply		mer posts: Insta ers	5.2.9.2	On Receipt of Complete Auto-Transformer at Site of Permanent works and acceptance by the Engineer	20	t Price	oost on pro-tata
Traction Power Supply	Schedule 5.2.9	& Auto Transforme Auto-Transformers	5.2.9.3	On Completion of Erection of Auto- Transformers on its foundation at site.	15	ne Contract Price	le for each j
Traction	Sch	Supply Control posts & Auto Transformer posts: Installation of Auto-Transformers	5.2.9.4	On completion of balance works as per drawing, erection of Motor operated isolators, making connections, fitment of components and ancillaries, and successful conclusion of pre- commissioning procedure.	5	12.1% of the	The payment shall be made for each post on pro-rata basis
		Supply		Total	100	_	Ĩ

	Schedule5.2.10 - Contract Price Weightage for Interim Payments for Construction of Traction Power Supply Installation: Sectioning Sub-Sectioning and Auto-Transformer Posts: Tests and Commissioning.											
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure					
ly		Commissioning	5.2.10.1	On completion of all mechanical adjustments, earth Tests, proving of circuits, continuity and Insulation tests, Safety and Interlocks	80	rice	ll be on per unit					
Traction Power Supply	Schedule 5.2.10	Traction Substations: Tests and Commissioning	5.2.10.2	On Charging with Power and Commissioning	20	0.5% of the Contract Price	Cost of each Traction installation shall be on per unit basis.					
		Traction Subs		Total	100	0.5	Cost of each Tr					

Schedule 5.3.1 - Contract Price Weightage for Interim Payments for Over Head Equipment(OHE): Foundations for OHE structures

Cost Centre		Item of Work		Stage Payment	Weightage %	Cost	Payment Procedure
ment		for	5.3.1.1	Casting of OHE Foundations in ground and bank	85	t Price	measurement shall a basis per track km
Equipment	ule 5.3.1	Foundation structures		Casting of Special OHE Foundations on Bridges & Viaducts	10	Contrac	leasureme basis per
Over Head	Schedule	Casting Foundations structures		Muffing and finishing of concreting work & Completion of all works related to this cost centre	5	of the (Unit of m 1 pro-rata l
ó		Сая		Total	100	3.3%	The L be on

Name of Bidder

Erection of Steel Structures											
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage	Cost	Payment Procedure				
Equipment	.3.2	Steel	5.3.2.1	Receipt of Steel Structures in Contractor's Depot and acceptance by the Engineer	70	ontract	ll be on r track basis.				
		fur of	on of uctur		Erection of Individual Masts/Portals for Main Line	15	of the C Price				
Over Head E. Schedule	Erection Struct	5.3.2.3	Erection of Individual Masts/Portals at Stations	10	.7% of	ayment sh pro-rata p kilometer					
Ő			5.3.2.4	Final completion of all works	5	11.	Å				
				Total	100						

Cost		Item of Work	Item No.	in Traction Supply Cont Stage Payment	Weightage %	Cost	Payment Proceedure
Centre	work					Procedure	
		der					3.2 be
Over Head Equipment Schedule 5.3.3		25 s a	5.3.3.1	On Supply of SPS, bracket components, fittings and Auxiliary Transformers at contractor's depot and acceptance by the Engineer	54	t Price	te Unit of measurement of items 5.3.3.1 & 5.3.3.2 shall be on pro-rata basis per track km basis. te unit for items 5.3.3.3, 5.3.3.4& 5.3.3.5 shall be on pro-rata discrete number of units.
		l part steel wo sulators, Brac transformers	5.3.3.2	On erection of all SPS, 25 kV feeder insulators, brackets and fittings	28	2.7% of the Contract Price	nt of items asis per tr 3, 5.3.3.48 te number
	Sche	iall par insulai tran	5.3.3.3	On erection of Auxiliary transformers at stations	3	of the	ureme o-rata b s 5.3.3.2 discret
		Erection of small part steel work, supermast, insulators, Bracket transformers	5.3.3.4	On erection of Auxiliary transformers at level crossings & S&T huts	10	2.7%	The Unit of measurement of items 5.3.3.1 shall be on pro-rata basis per track km b The unit for items 5.3.3, 5.3.3.4& 5.3.3.5 on pro-rata discrete number of units.
		Erect suj	5.3.3.5	On Completion of balance work .	5		l'he Un shall 1 The uni
				Total	100		1. 1 2. T

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Sch	edule	e 5.3.4 -		t Price Weightage for Interim pment: Stringing of Conducto			f Overhead																	
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure																	
			5.3.4.1	On receipt at site and acceptance by the Engineer of Feeder Wire	12	_	1. For items 5.3.4.1, 5.3.4.2, 5.3.4.3, 5.3.5.4, 5.3.4.5 & 5.3.4.6 payment shall be on pro-rata on per tonne basis. 2. For items 5.3.4.7, 5.3.4.8 & 5.3.4.9 payment shall be on pro-rata on per track km basis.																	
	Over Head Equipment Schedule 5.3.4	t wire	wire	vire	ire	ire	5.3.4.2	On submission of Bill of Lading ofCatenary Wire	15		ro-rata on po r track km b													
at		nd contact wi	5.3.4.3	On Receipt of Catenary Wire at contractor's depot and acceptance by the Engineer	13	rice	shall be on p pro-rata on pe																	
Equipmer		Catenary a	5.3.4.4	On submission of Bill of Lading of Contact wire	20	Contract P	.6 payment shall be on																	
Over Head		ocneur Dn stringing of Feeder, ()n stringing of Feeder, (On stringing of Feeder, C	ıging of F	5.3.4.5	On Receipt of Contact Wire at contractor's depot and acceptance by the Engineer of	18	13.8% of the Contract Price	.3.4.5 & 5.3.4 1.9 payment														
						On stringing	On stringing	On stringing	On stringing	On stringing o	On stringing o	On stringing (On stringing (On stringing	On stringing (On stringing of]	On stringing of	On stringing of						
			5.3.4.7	On stringing of Feeder wire	5	_	.2, 5.3																	
			5.3.4.8	On stringing of OHE conductors	10		3.4.1, 5.3.4 or items 5.5																	
			5.3.4.9	On Anti-theft Charging	2	-	items 5. 2. Fc																	
				Total	100		1. For																	

Equipment(OHE): Check Adjustments and tests													
Cost Centre		Item Work	of	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure					
								uo					
Over Head Equipment	Schedule 5.3.5		theft charging	theft charging	theft charging	theft charging	theft charging		5.3.5.1	On adjustments of brackets, jumpering and OHE adjustments and checking of clearances	60	ct Price	For the work payment shall be made on pro-rata on per km basis
				5.3.5.2	On checking the profile of OHE and clearances	30	0.5% of the Contract Price	nt shall be m per km basis					
Over He	Sche	ents, test		5.3.5.3	On Completion of all balance work	10).5% of th	k payment per					
		ljustm					Ŭ	le wor					
		Ad			Total	100		or th					

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Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
		ions					basis
		and connect nections		On Carrying out all earthing and bonding works	95		ber kilometer
Quipment	e 5.3.6	On laying of longitudinal earth conductors and connections with masts, track and self inter-connections	5.3.6.2	On verification and final testing of earthing and bonding	5	% of the Contract Price	For each item Payment shall be made pro-rata per kilometer basis
Over Head Equipment	Schedule	dinal earth track and s		Total	100	% of the Co	ıt shall be ma
0		g of longitu vith masts,				2.6	item Paymer

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Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Construction of OHE	Schedule 5.3.7	Construction of OHE : Test and Commissioning		On completion of all mechanical adjustments, earth Tests, proving of circuits, continuity and Insulation tests, Operations, Interlocks and Safety On Charging with Power and Commissioning	80	0.5% of the Contract Price	The payment shall be made on per km basis
				Total	100		

Cost Centre		Item of Work		Stage Payment	Weighta ge %	Cost	Payment Procedure
			5.4.1	On Supply of SCADA OCC equipment, components and accessories at OCC Site	25		given in this
SCADA chedule 5.4.			5.4.2	On Supply of SCADA RTU equipment, components and accessories at TSSs	25		s per weightage
		orks	5.4.3	On Supply of SCADA RTU equipment, components and accessories at SP, SSP, ATP and Aux TF Stations	10	e	The Unit of measurement is in Units. Payment of each stage shall be made on pro-rata as per weightage given in this Schedule
	Schedule 5.4.	On Execution of SCADA Works	5.4.4	On Installation of Equipment and Components in the TSS,	5	0.9% of the Contract Price	ch stage shall be m Schedule
	Š	On Execut	5.4.5	On Installation of Equipment and Components in the SSP, SP , ATP and Aux TF stations		0.9% of	ts. Payment of eac
			5.4.6	On Installation of Equipment and Components in the OCC	10		ment is in Uni
			5.4.7	On Test and Commissioning of SCADA equipment	20		uit of measure
				Total	100		The Un

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S				ghtage for Interim P ssioning, Training mo	
Cost Centre			Stage Payment	Weightage %	Payment Procedure
Traction Power Supply, Overhead Equipment and SCADA	Schedule 5.5:Traction Supply ,OHE and SCADA	Section Testing and Commissioning/ Training/mock-up & proto type	After successful completion ofSection Testing and Commissioning of Works.	0.9% of the Contract Price on Pro-rata Km basis	Payment for Sectional Testing and Commissioning shall be released after successful completion ofon Testing and Commissioning of Works of the Section on pro-rata basis of km and certification by Engineer.

Schedule	5.6 - Contract Testir	t Price Weightag ng and Commise	ge for Interim Payr sioning for the Ent	nent for System Integrated ire Project
Cost Centre		Item of Work	Stage Payment	Weightage %
Traction Power Supply, Overhead Equipment and SCADA	Schedule 5.6 - Traction Supply , OHE and SCADA	Integrated Testing and Commissioning	After successful completion ofIntegrated Testing and Commissioning of Works.	0.5% of the Contract Price

Cost Centre		Item of Work		Stage Payment	Weightage %	Cost	Payment Procedur
nts	struments		5.7.1	On Supply of Spare, Traction Transformer, Auto- Transformer ,Circuit Breaker ,Interruptor and Potential Transformer	30		shall be released oot
Instrume	ols and In	Depot	5.7.2	On Supply of other Spares , Tools and Instruments of Power Supply and SCADA	40	Price	nstruments oloyer's Dep
Supply of Spares, Tools and Instruments	Supply of Spares, Tools and Instruments	Supply at Employer's Depot	5.7.3	On Supply of other Spares , Tools and Instruments of OHE	30	1.5% of the Contract Price	Payment for Supply of Spares , Tools and Instruments shall be released after successful supply at Employer's Depot
ly of S		Supp				1.5%	y of Sp success
Supp	Schedule 5.7			Total	100		ent for Suppl after :