

Schedule 5.1							
Reconnaissance Survey, Inception Report, Validation of Survey Data, Simulation of train operation, Designs & Drawings: Basic, Construction and As Built							
Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure	
Validation of Survey Data, Simulation of train operation, Designs and Drawings : Basic, Construction and As Built.	Inception Report	5.1.1	Reconnaissance Survey and Inception Report	5	2.5% of the Contract Price	On acceptance of Survey and Inception Report	
	Validation of Survey Data, Preliminary alignment and power supply points.	5.1.2	Report on Site Investigation of Feasibility and verification of data furnished by the Employer	5		On acceptance of investigation of feasibility and verification data Report	
	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		On acceptance of Simulation Report	
	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	5.1.6	As Built Designs, Drawings and all residual Works	5		on Prorata basis	
				Total		100	

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

Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Traction Power Supply Schedule 5.2.1 Traction Substation: Civil Works		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	2.3% of the Contract Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
		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		
		5.2.1.3	On completion of Earthing & Bonding and Lighting Protection Works, spreading Gravel and final dressing of switchyard and landscaping.	5		
		Total		100		

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

Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Traction Power Supply Schedule 5.2.2	Traction Substation: Steel Structures, Bus bars and Conductor stringing	5.2.2.1	Supply of steel work in Contractor's depot at site and acceptance by the Engineer	30	0.4% of the Contract Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
		5.2.2.2	On Completion of steel work Erection	10		
		5.2.2.3	On Supply of Hardware, conductors and Busbars	35		
		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		
			Total	100		

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Schedule 5.2.3 - Contract Price Weightage for Interim Payments on Construction of Substations: Installation of Traction Transformers						
Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Traction Power Supply Schedule 5.2.3	Traction Substation: Installation of Traction Transformers	5.2.3.1	On submission of Bill of Lading	60	22.1% of the Contract Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
		5.2.3.2	On Receipt of Complete Traction Transformer at Site of Permanent Works and acceptance by the Engineer	20		
		5.2.3.3	On Completion of Erection of Transformers on its foundation and completion of balance works	17		
		5.2.3.4	On successful completion of test and pre-commissioning procedure	3		
		Total		100		

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

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

Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Traction Power Supply Schedule 5.2.5	Traction Substation: Installation of Switchgear, cables and Ancillary's Works	5.2.5.1	On receipt of Switchgear and ancillary equipment at Site Stores of the Contractor and acceptance by the Engineer	70	3.8 % of the Contract Price	The payment shall be made for each Traction Sub-station on pro-rata basis.
		5.2.5.2	On erection of conductors and completion of installation equipment.	25		
		5.2.5.3	On successful completion of all works related to testing and pre-commissioning procedure for the traction substation.	5		
		Total		100		

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Schedule 5.2.6 - 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
Traction Power Supply Schedule 5.2.6	Traction 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 Traction Sub-station on pro-rata basis.
		5.2.6.2	On Charging with Power and Commissioning	30		
			Total	100		

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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
Traction Power Supply Schedule 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	2.8 % of the Contract Price	The payment shall be made for each post on pro-rata basis.
		5.2.7.2	On completion of balance Civil, Structural works , Earthing and Bonding , and finishing works.	40		
			Total	100		

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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
Traction Power Supply Schedule 5.2.8	SP, SSP and ATP: Installation of Switchgear, cables and ancillary equipment and Ancillary Works	5.2.8.1	On receipt of Switchgear and ancillary equipment at Site Stores of the Contractor and acceptance by the Engineer	70	4.0% of the Contract Price	The payment shall be made for each post on pro-rata basis.
		5.2.8.2	On Erection of Equipment and conductors at site of Permanent Works and its connections	25		
		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		
			Total	100		

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Schedule 5.2.9- Contract Price Weightage for Interim Payments for Construction of Traction Power Supply Installation: Sectioning, Sub-Sectioning and Auto-Transformer Posts: Installation of Auto-Transformers							
Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure	
Traction Power Supply Schedule 5.2.9	Supply Control posts & Auto Transformer posts: Installation of Auto-Transformers	5.2.9.1	On submission of Bill of Lading	60	12.1% of the Contract Price	The payment shall be made for each post on pro-rata basis.	
		5.2.9.2	On Receipt of Complete Auto-Transformer at Site of Permanent works and acceptance by the Engineer	20			
		5.2.9.3	On Completion of Erection of Auto-Transformers on its foundation at site.	15			
		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			
		Total					100

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Schedule 5.2.10 - 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	
Traction Power Supply	Schedule 5.2.10	Traction Substations: Tests and Commissioning	5.2.10.1	On completion of all mechanical adjustments, earth Tests, proving of circuits, continuity and Insulation tests, Safety and Interlocks	80	0.5% of the Contract Price	Cost of each Traction installation shall be on per unit basis.
			5.2.10.2	On Charging with Power and Commissioning	20		
			Total		100		

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**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	
Over Head Equipment	Schedule 5.3.1 Casting Foundations for structures	5.3.1.1	Casting of OHE Foundations in ground and bank	85	3.3% of the Contract Price	The Unit of measurement shall be on pro-rata basis per track km
		5.3.1.2	Casting of Special OHE Foundations on Bridges & Viaducts	10		
		5.3.1.3	Muffing and finishing of concreting work & Completion of all works related to this cost centre	5		
			Total	100		

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Schedule 5.3.2 - Contract Price Weightage for Interim Payments for Over Head Equipment(OHE): Erection of Steel Structures							
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure
Over Head Equipment	Schedule 5.3.2	Erection of Steel Structures	5.3.2.1	Receipt of Steel Structures in Contractor's Depot and acceptance by the Engineer	70	11.7% of the Contract Price	Payment shall be on pro-rata per track kilometer basis.
			5.3.2.2	Erection of Individual Masts/Portals for Main Line	15		
			5.3.2.3	Erection of Individual Masts/Portals at Stations	10		
			5.3.2.4	Final completion of all works	5		
			Total	100			

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<p align="center">Schedule 5.3.3 - Contract Price Weightage for Interim Payments for Construction of Overhead Equipment: Erection of brackets, Small Part Steel-work and Auxilliary Transformers (other than those in Traction Supply Control posts).</p>								
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure	
Over Head Equipment	Schedule 5.3.3	Erection of small part steel work, 25 kV feeder supermast, insulators, Brackets and Aux transformers					2.7% of the Contract Price	1. The Unit of measurement of items 5.3.3.1 & 5.3.3.2 shall be on pro-rata basis per track km basis. 2. The unit for items 5.3.3.3, 5.3.3.4& 5.3.3.5 shall be on pro-rata discrete number of units.
			5.3.3.1	On Supply of SPS, bracket components, fittings and Auxiliary Transformers at contractor's depot and acceptance by the Engineer	54			
			5.3.3.2	On erection of all SPS, 25 kV feeder insulators, brackets and fittings	28			
			5.3.3.3	On erection of Auxiliary transformers at stations	3			
			5.3.3.4	On erection of Auxiliary transformers at level crossings & S&T huts	10			
			5.3.3.5	On Completion of balance work .	5			
				Total	100			

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Schedule 5.3.4 - Contract Price Weightage for Interim Payments for Construction of Overhead Equipment: Stringing of Conductors and Droppering,										
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure			
Over Head Equipment	Schedule 5.3.4	On stringing of Feeder, Catenary and contact wire	5.3.4.1	On receipt at site and acceptance by the Engineer of Feeder Wire	12	13.8% of the Contract Price	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.			
			5.3.4.2	On submission of Bill of Lading of Catenary Wire	15					
			5.3.4.3	On Receipt of Catenary Wire at contractor's depot and acceptance by the Engineer	13					
			5.3.4.4	On submission of Bill of Lading of Contact wire	20					
			5.3.4.5	On Receipt of Contact Wire at contractor's depot and acceptance by the Engineer of	18					
			5.3.4.6	On Supply of other conductors and acceptance by the Engineer	5					
			5.3.4.7	On stringing of Feeder wire	5					
			5.3.4.8	On stringing of OHE conductors	10					
			5.3.4.9	On Anti-theft Charging	2					
			Total					100		

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Schedule 5.3.5 - Contract Price Weightage for Interim Payments for Overhead Equipment(OHE): Check Adjustments and tests							
Cost Centre	Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure	
Over Head Equipment	Schedule 5.3.5	Adjustments , tests and antitheft charging	5.3.5.1	On adjustments of brackets, jumpering and OHE adjustments and checking of clearances	60	0.5% of the Contract 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		
			5.3.5.3	On Completion of all balance work	10		
				Total	100		

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Schedule 5.3.6 - Contract Price Weightage for Interim Payments for Overhead Equipment (OHE): Installation of Earthing and Bonding Works								
Cost Centre		Item of Work	Item No.	Stage Payment	Weightage %	Cost	Payment Procedure	
Over Head Equipment	Schedule 5.3.6	On laying of longitudinal earth conductors and connections with masts, track and self inter-connections					2.6 % of the Contract Price	For each item Payment shall be made pro-rata per kilometer basis
			5.3.6.1	On Carrying out all earthing and bonding works	95			
			5.3.6.2	On verification and final testing of earthing and bonding	5			
				Total	100			

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Schedule 5.3.7 Contract Price Weightage for Interim Payments for Construction of OHE: Tests and Commissioning							
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	5.3.7.1	On completion of all mechanical adjustments, earth Tests, proving of circuits, continuity and Insulation tests, Operations, Interlocks and Safety	80	0.5% of the Contract Price	The payment shall be made on per km basis
			5.3.7.2	On Charging with Power and Commissioning	20		
				Total	100		

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Schedule 5.4 - Contract Price Weightage for Interim Payments for SCADA : Installation of SCADA at RTUs and OCC								
Cost Centre		Item of Work	Stage Payment	Weightage %	Cost	Payment Procedure		
SCADA	Schedule 5.4.	On Execution of SCADA Works	5.4.1	On Supply of SCADA OCC equipment, components and accessories at OCC Site	25	0.9% of the Contract Price	The Unit of measurement is in Units. Payment of each stage shall be made on pro-rata as per weightage given in this Schedule	
			5.4.2	On Supply of SCADA RTU equipment, components and accessories at TSSs	25			
			5.4.3	On Supply of SCADA RTU equipment, components and accessories at SP, SSP, ATP and Aux TF Stations	10			
			5.4.4	On Installation of Equipment and Components in the TSS,	5			
			5.4.5	On Installation of Equipment and Components in the SSP, SP , ATP and Aux TF stations	5			
			5.4.6	On Installation of Equipment and Components in the OCC	10			
			5.4.7	On Test and Commissioning of SCADA equipment	20			
			Total					100

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Schedule 5.5 - Contract Price Weightage for Interim Payment for : System Sectional Test and Commissioning, Training mock-up & aids					
Cost Centre		Item of Work	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 of Section 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.

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Schedule 5.6 - Contract Price Weightage for Interim Payment for System Integrated Testing and Commissioning for the Entire 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 of Integrated Testing and Commissioning of Works.	0.5% of the Contract Price

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Schedule 5.7 - Contract Price Weightage for Interim Payment for Supply of Spares, Tools & Instruments							
Cost Centre		Item of Work		Stage Payment	Weightage %	Cost	Payment Procedure
Supply of Spares, Tools and Instruments	Schedule 5.7 - Supply of Spares, Tools and Instruments	Supply at Employer's Depot	5.7.1	On Supply of Spare, Traction Transformer, Auto-Transformer ,Circuit Breaker ,Interruptor and Potential Transformer	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
			5.7.2	On Supply of other Spares , Tools and Instruments of Power Supply and SCADA	40		
			5.7.3	On Supply of other Spares , Tools and Instruments of OHE	30		
				Total	100		

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