

SCHEDULE – G

(See Clauses 10.1.4 and 17.3)

Contract Price Weightages

- 1.1 The Contract Price for this Agreement is **Rs. 199,63,77,100.43**. It is assigned for different components of the Railway Project as follows:

Signalling Work of Provision of KAVACH	70.505 % of Contract price
2X48 fibre OFC backbone and integration with existing telecom/OFC system	26.069 % of Contract
Civil Work	3.426 % of Contract

For maintenance works of KAVACH system consisting of Wayside Station and Locomotive works#

#Wayside Station & Tracksides [KAVACH] Equipments £ (For Defect Liability Period) per annum	0.2999% of the Contract Price say “A”
#Wayside Station & Tracksides [KAVACH] Equipments £ (After Defect Liability Period) per annum	0.5998% of the Contract Price say “A”
#Locomotive [KAVACH] Equipments for Defect Liability Period per annum	0.3233% of the Contract Price say “B”
#Locomotive [KAVACH] Equipments after Defect Liability Period per annum	0.6466% of the Contract Price say “B”

the percentage given above is for the purpose of Maintenance Obligation only as per utilized in Article 15A.

£ This does not include Towers, OFC System and Signaling System other than KAVACH System.

Note – Contract price does not include the cost of maintenance during the maintenance period including DLP i.e. the cost after commissioning of the complete project and issuance of the completion certificate.

1.2 Proportions of the Contract Price for different stages of Construction of the Railway Project shall be as specified below:

SN	Major Item	% Weigh tage to the Contra ct Price	Item	% Weightage to the Contract Price	Stage for Payment	Percentage weightage	Payment Procedure
1	Signalling works of Provision of KAVACH complete	70.505 %	2.1 Signaling work for provision of KAVACH (Train Collision Avoidance System)	59.547%	2.1.1 Survey, design and supply of various drawings and document for KAVACH system including RSSI and Arial survey.	1.178%	2.1.1.1 90% Payment shall be made on completion of Survey and Design works for KAVACH system after approval and submission of all drawings, schemes etc. on pro rata basis after work completion in atleast one block section with respect to required work in total km of route length
					2.1.2 (a) Supply, installation, testing and commissioning of Stationary/IBH/LC KAVACH system including Vital Computer, Supply & Installation of RFID Tags of TCAS, Installation of Connected LC's, programming Kit etc. Relay / CT Racks, RIU programming Kit etc.	40.855%	2.1.2.1 90% Payment shall be made on completion of work on pro rata basis for each block section for track side equipments.
					2.1.2 (b) Supply, installation, testing and commissioning of Towers, etc.	23.823%	
					2.1.3 Supply & installation of Loco KAVACH system including Vital Computer, peripherals RFID readers, peripherals such as DMI, modems, Antennas, programming Kit etc.	32.222%	2.1.3.1 For cab equipment, 90% payment shall be made for 87 locos on a pro rata basis.
					2.1.4 Supply & Installation of Network Management system (NMS) for KAVACH.	0.550%	90% Payment shall be made on completion of the entire work

					2.1.5 Supply & Installation of Test Bench and setup of Labs for KAVACH including supply of various manuals, tool kits and instruments.	1.326%	90% Payment shall be made on completion of the entire work
					2.1.6 Training to Railway Personal.	0.046%	90% Payment shall be made on completion of the entire work
			2.2 Inventory: Supply of KAVACH spares	3.907%	2.2.1 Supply of spares for KAVACH	100%	2.2.1.1 90% Payment for inventory (supply of spares) for each stage shall be made on completion of works in item 2.1.2a, 2.1.3, Note: There will not be any payment for part supply of inventory.
			2.3 Integrated testing and commissioning of KAVACH works	7.051%	2.3.1 Integrated testing and commissioning of the signalling works of railway project along with supply of safety case, key and management service charge.	100%	2.3.1.1 On the issuance of Completion Certificate for entire project, payment of balance 10% of all items of SN 1.
			2.4 Telecommunication work for Provision of 2x48 Fibres OFC Backbone system alongwith IP-MPLS Network	23.462%	2.4.1 Survey of Optical fibre cable system including its design, testing, supply of manuals for new technology Telecommunication equipment installed for each place, supply of completion drawings, etc.	0.231%	2.4.1.1 Unit of measurement is distance in track km between two stations. 90% Payment shall be made on completion of work between two stations on pro rata basis with respect to the total track km length.
2	Telecommunication work for Provision of 2X48 Fibres along with IP-MPLS OFC Backbone	26.069%			2.4.2 Supply of OFC (2x48 Fibrer	37.225%	2.4.2.1 90% Payment shall be made on completion of supply on pro rata basis with respect to total track kilometer (TKM) length). Payment for supplies, to the extent of maximum (10%) of the total quantity involved in scope of work may be done. Payment against supplies under these items shall be made for quantities as per the approved layout, on receipt of material at contract depot and production of inspection certificates and other documents and against equivalent amount. Note: (i) Payment made for supplies under these items shall not be counted for completion of Project milestone under schedule-I. (ii) Payment, for supply

							of next lot/ quantity of OFC, will be claimed after issue of completion certificate for earlier supplied OFC.
					2.4.3	49.041%	2.4.3.1
					Laying of OFC via two routes and supply, installation, testing & commissioning of complete OFC communication system		90% Payment shall be made on completion of installation work between tow stations on pro rata basis with respect to total track kilometre (TKM) length.
					2.4.4 supply, installation, testing and commissioning of IP-MPLS ROUTER, charger and 48V 200AH Battery alongwith all accessories, NMS etc.	13.503%	90% Payment shall be made on completion of work on pro rata basis for each block section
			Total		100.00%		
			2.5	2.607%	2.5.1	100%	2.5.1.1
			Integrated testing and commissioning of the communication works of railway project along with supply of all as made drawing of communication works	Integrated testing and commissioning of complete OFC communication system and supply of completion drawings and documents.	Payment of balance 10% of all items of SN 2 on the issuance of Completion Certificate. In case the Completion Certificate is for part of the Railway Project., the payment shall be made for the route km covered by the Completion Certificate on pro rata basis with reference to the total route km for the Project.		
3	Civil work for provision of Service building at Stations/ LC gates/ IBH	3.426 %	2.6	3.083%	2.6.1	100.00%	2.6.1.1
			Provision of Service building at stations and LC/IBH	Survey, design and construction of Service Building at station and Relay hut at LC/IBH including electrical wiring and extension of supply, fittings with complete doors, windows and floorings and any other requirements as per approved drawings.	90% Payment shall be made on completion of Survey and Design works and approval of these drawings by authority for service building/ Relay Hut and construction of service building on pro rata basis with respect total No. of Service building & Relay Hut in the Section.		
			2.7	0.343%	2.7.1	100.00	2.7.1.1
			Overall completion of service building		Completion of the Service building in all respect and commissioning of the entire work included in the whole project.		Balance 10% Payment shall be made on completion of all Buildings/ Relay huts in all respect in the entire section included in the project.

Note: First payment will be done only after commissioning of minimum 05 loco TCAS and 5 Stationary TCAS at the station including concerned Block sections and successful test run as specified by RDSO.