HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

(A Joint Venture Govt. of Haryana and Ministry of Railways)

Plot no.143, Railtel Tower, Sector-44, Floor/ Room number: 5th floor, City: Gurugram, Zip code: 122003, Country: INDIA

Telephone: +91 9311478893, E-mail: horc.etendering@gmail.com, Website: www.hridc.co.in

Tender No.: HORC/HRIDC/C-2/2022 Date: 21.07 .2022

Reference: Specific Procurement Notice dated 18.06.2022.

CORRIGENDUM NO. 3

Name of Work: C-2: Composite Contract Package in connection with laying of New BG Double Railway Line of HORC project for:

- (i)Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls and other miscellaneous Works) from Km 55.60 to Km 61.50 and its connectivities to IR network from New Patli to Patli & New Patli to Sultanpur including modifications in Sultanpur station yard,
- (ii) Design, Supply, Installation, Testing & Commissioning of OHE (1x25 kV) and General Electrical services from Km 49.70 to Km 61.50 and its connectivities to IR network from New Patli to Patli & New Patli to Sultanpur including modifications in Sultanpur station yard and
- (iii) Design, Supply, Installation, Testing & Commissioning of Signalling & Telecommunication from Km 49.70 to Km 61.50 and its connectivities to IR network from Manesar to Patli and New Patli to Patli & New Patli to Sultanpur including modifications in Patli and Sultanpur station yards.

	S.	Tender Document Part /	Description of Existing Clause	Modified Description of Existing Clause / New
N	lo.	Section/ Clause No.		Clause
	1.	Part 1, Section IV, Tender Forms, Appendix A and Appendix B to Financial part	Appendix A and Appendix B to Financial Part	The existing Appendix A and Appendix B to Financial Part is replaced and annexed as "Attachment-1" of this Corrigendum No. 3.

Appendix A and Appendix B to Financial Part

Appendix A to Financial Part/R1

1. Price adjustment

- 1.1 The amounts payable to the Contractor for Works shall be adjusted in accordance with the provisions of this Clause 1.0, Sub-Clause 13.7 of GCC and Sub-Clause 13.7, Specific Provision, Part B, Section IX-PCC.
- 1.2 The Contract Price shall be adjusted for increase or decrease in rates and prices of labour, materials, fuel and lubricants, equipment, Machinery, Plant and other Materials or inputs in accordance with the principles, procedures and formulae specified below:
 - a) Price adjustment shall be applied on completion of the specified stage of the respective item of work in accordance with Schedule-A. Base month for the purpose of Price Adjustment shall be the month in which the Tender is opened for Civil Works, S&T Works and Electrification Works. The 1st Quarter will start from Base month;
 - b) Adjustment for each item of work/stage shall be made separately;
 - c) The following expressions and meanings are assigned to the value of the work done for Civil works:

EW = Value of work done for the completion of a stage under the Cost Centre 'CE' of Price Schedule 'A';

BR = Value of work done for the completion of a stage under the Cost Centre 'CB' of Price Schedule 'A';

STN = Value of work done for the completion of a stage under Cost Centre CS of Price Schedule 'A':

RW = Value of work done under Price Schedule 'B';

MISC = Value of work done under Price Schedule 'C';

- d) Price adjustment for change in costs of civil works shall be paid in accordance with the following formula:
 - i) VEW= 0.85 EW x [PLB x (LBi LBo)/LBo + PF x (Fi –Fo)/Fo + PMACH x (MACHi MACHo)/MACHo + POTH x (OTHi OTHo)/OTHo];
 - ii) VBR = 0.85 BR x [PLB x (LBi LBo)/LBo + PC x (Ci Co)/Co + PS x (Si So)/So + PF x (Fi Fo)/Fo + PMACH x (MACHi MACHo)/MACHo + POTH x (OTHi OTHo)/OTHo];
 - iii) VSTN = 0.85 STN x [PLB x (LBi LBo)/LBo + PC x (Ci Co)/Co + PS x(Si So)/So + PF x (Fi Fo)/Fo + PMACH x ((MACHi MACHo)/MACHo + POTH x (OTHi OTHo)/OTHo];
 - iv) VRW = 0.85 RW x [PLB x (LBi LBo)/LBo + PC x (Ci Co)/Co + PS x (Si So)/So + PF x (Fi Fo)/Fo + PMACH x (MACHi MACHo)/MACHo + POTH x (OTHi OTHo)/OTHo];

v) VMISC= 0.85 MISC x [PLB x (LBi – LBo)/LBo + PF x (Fi –Fo)/Fo + PMACH x (MACHi – MACHo)/MACHo + POTH x (OTHi - OTHo)/OTHo];

Where

VEW = Increase or decrease in the cost under the Cost Centre 'CE' of Price Schedule 'A' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

VBR = Increase or decrease in the cost of Cost Centre 'CB' of Price Schedule 'A' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

VSTN = Increase or decrease in the cost of Cost Centre 'CS' of Price Schedule 'A' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

VRW = Increase or decrease in the cost of work done under Price Schedule 'B' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

VMISC = Increase or decrease in the cost of work done under Price Schedule 'C' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

PC, PF, PLB, PMACH, POTH and PS are the percentages of cement, fuel and lubricants, labour, Plant Machinery and tools, other materials, and steel/ steel components (including strands and steel cables), respectively for the relevant item as specified in sub-paragraph (e);

Co = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for sub-group Cement, Lime & Plaster for the Base Month;

Ci = The WPI for sub-group Cement, Lime & Plaster for the average price index of the 3 months of the quarter under consideration;

Fo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for group Fuel & Power for the Base Month;

Fi = The WPI for group Fuel & Power for the average price index of the 3 months of the quarter under consideration

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called "CPI") for the Base Month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration;

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MACHo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for category- k "Manufacturing of Machinery for Mining, quarrying and construction' under (R) Manufacturing of Machinery and Equipment for the Base Month;

MACHi = The WPI for category- k "Manufacturing of Machinery for Mining, quarrying and construction' under (R) Manufacturing of Machinery and Equipment for the average price index of the 3 months of the quarter under consideration;

OTHo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for all commodities for the Base Month;

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration;

So = Rate of RINL for Rebar 8 mm (coil) as published on their website for the Base Month:

Si = Average rate of RINL for Rebar 8 mm (coil) as published on their website for the 3 months of the quarter under consideration;

The following percentages shall govern the price adjustment of the Contract Price for costs of civil works:

Component	EW (Cost Centre CE of Price Schedule "A")	BR (Cost Centre CB of Price Schedule "A")	STN (Cost Centre CS of Price Schedule "A")	RW (Price Schedule "B")	MISC (Price Schedule "C")
(1)	(2)	(3)	(4)	(5)	(6)
Cement (PC)	-	20%	15%	20%	-
Fuel and lubricants (PF)	30%	10%	10%	10%	30%
Labour (PLB)	20%	10%	25%	10%	20%
Machinery and Plants (PMACH)	40%	20%	20%	20%	40%
Other Materials (POTH)	10%	15%	20%	15%	10%
Steel(PS)	-	25%	10%	25%	-
Total	100%	100%	100%	100%	100%

f) The following expressions and meanings are assigned to the value of the work done for signalling and telecommunication works:

SIGWK = Value of signalling works for a stage payment of the item signalling works under cost centers S2, S3, S4, S5 and S6;

INVSIG = Value of inventory for signalling works for a stage payment of the item inventory for signalling works under cost center S7;

INTGTESTSIG = Value of integrated testing and commission for signalling works under cost center S8:

COMWK= Value of telecommunication works for a stage payment of the item telecommunication works under cost centers T2, T3, T4, T5, T6, T7, T8, T9 and T10;

INTGTESTCOM = Value of integrated testing and commission for telecommunication works under cost center T11; and

INVCOM = Value of inventory for telecommunication works for a stage payment of the item inventory for telecommunication works under cost center T12;

g) Price adjustment for changes in cost of signalling works and telecommunication works shall be paid in accordance with the following formula:

VSIGWK = 0.85 SIGWK x [PELEX x (ELEXi – ELEXo)/ ELEXo + POFC x (OFCi – OFCo)/OFCo + PLB x (LBi – LBo)/LBo + POTH x (OTHi - OTHo)/OTHo + S24C x (P24Ci – P24Co)/ P24Co + S19C x (P19Ci – P19Co)/ P19Co + S12C x (P12Ci – P12Co)/ P12Co + S6C x (P6Ci – P6Co)/ P6Co;

VINVSIG = 0.85 SIGWK x [PELEX x (ELEXi – ELEXo)/ ELEXo + POTH x (OTHi - OTHo)/OTHo];

VINTGTESTSIG = 0.85 INTGTESTSIG x [PLB x (LBi – LBo)/LBo + POTH x (OTHi - OTHo)/OTHo];

VCOMWK = 0.85 COMWK x [PELEX x (ELEXi – ELEXo)/ ELEXo + POFC x (OFCi – OFCo)/OFCo + PLB x (LBi – LBo)/LBo + POTH x (OTHi - OTHo)/OTHo + QC x (PQCi – PQCo)/ PQCo+ PCEQP x (CEQPi – CEQPo)/CEQPo];

VINVCOM = 0.85 SIGWK x [PELEX x (ELEXi – ELEXo)/ ELEXo + POTH x (OTHi - OTHo)/OTHo]; and

VINTGTESTCOM = 0.85 INTGTESTCOM x [PLB x (LBi – LBo)/LBo + POTH x (OTHi - OTHo)/OTHo].

Where

VSIGWK = Increase or decrease in the cost of signalling works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINVSIG = Increase or decrease in the cost of inventory for signalling during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINTGTESTSIG = Increase or decrease in the cost of integrated testing and commissioning of signalling works of the HORC Project during the period under consideration due to changes in the rates for relevant components as specified in subparagraph (h);

VCOMWK = Increase or decrease in the cost of communication works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINVCOM = Increase or decrease in the cost of inventory for telecommunications works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINTGTESTCOM = Increase or decrease in the cost of integrated testing and commissioning of telecommunication works of the HORC Project during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

PCEQP, PELEX, PIC, PLB, POFC, and POTH are the percentages of communication equipment, electronics, PVC insulated cables, labour, optical fibre cables, and other materials respectively;

CEQPo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for communication equipment for the Base Month;

CEQPi = The WPI for communication equipment for the average price index of the 3 months of the quarter under consideration;

ELEXo = The WPI for electronics for the Base Month;

ELEXi = The WPI for electronics for the average price index of the 3 months of the quarter under consideration;

P24Ci = Price payable per Km as adjusted in accordance with price variation Clause given in Clause (h1) for size 24C x 1.5 sq mm signalling cable

P24Co = Price per Km of size 24C x 1.5 sq mm signalling cable for Base month as per Table-2. S24C = Percentage of size 24C x 1.5 sq mm signalling cable as given in Table-1.

P19Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 19C x 1.5 sq mm signalling cable

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P19Co = Price per Km of size 19C x 1.5 sq mm signalling cable for Base month as per Table-2. S19C = Percentage of size 19C x 1.5 sq mm signalling cable as given in Table-1.

P12Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 12C x 1.5 sq mm signalling cable

P12Co = Price per Km of size $12C \times 1.5$ sq mm signalling cable for Base month as per Table-2. S12C = Percentage of size $12C \times 1.5$ sq mm signalling cable as given in Table-1.

P6Ci = Price payable per Km as adjusted in accordance with price variation Clause for size $6C \times 1.5$ sq mm signalling cable

P6Co = Price per Km of size 6C x 1.5 sq mm signalling cable for Base month as per Table-2. S6C = Percentage of size 6C x 1.5 sq mm signalling cable as given in Table-1.

PQCi = Price payable per Km as adjusted in accordance with price variation Clause for size 0.9mm dia, 6 Quad cable.

PQCo = Price per Km of size 0.9mm dia, 6 Quad cable for Base month as per Table-2. QC = Percentage of size 0.9mm dia, 6 Quad cable as given in Table-1.

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called "CPI") for the Base Month:

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration;

OFCo = The WPI for fibre cables for the Base Month:

OFCi = The WPI for fibre cables for the average price index of the 3 months of the quarter under consideration;

OTHo = The WPI for all commodities for the Base Month; and

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration.

h) The following percentages shall govern the price adjustment of the Contract Price for signalling and telecommunication works:

Table-1

Component		Signallir	ng	Teleco	ommunica	tion
	Signalling Work	Signalling Inventory	Integrated Testing & Commissioning	Telecommunication Work	Telecommunication Inventory	Integrated Testing & Commissioning
Electronics (PELEX)	42%	60%	1	10%	70%	-
Communication Equipment (PCEQP)	-	-	ı	15%	-	-
Optical Fibre Cable (POFC)	-	-	-	7%	-	-
24C x 1.5 sq mm signalling cable (S24C)	10%	-	-	-	-	-
19Cx 1.5 sq mm signalling cable (S19C)	3%	-	-	-	-	-
12C x 1.5 sq mm signalling cable (S12C)	8%	-	-	-	-	-
6C x 1.5 sq mm signalling cable (S6C)	2%	-	-	-	-	-
0.9 mm dia, 6 Quad cable (QC)	2%	-	-	10%	-	-
Labour (PLB)	15%	-	95%	12%	-	95%
Other materials	18%	40%	5%	46%	30%	5%
Total	100%	100%	100%	100%	100%	100%

(h1) PRICE VARIATION FORMULA FOR SIGNALING & TELECOM CABLE

The price payable for signalling cables is variable as per Price Variation Formula given below:

For Signalling Copper Cables:

Pi= Po+CuF (Cu-Cuo) + CCFcu(CC-CCo) + FeF (Fe-Feo)

For Telecom Copper Cables For Jelly Filled, 0.9 mm dia, 6 quad cable

Pi= Po+CuF (Cu-Cuo) + AlF(Al-Alo) + CCFcu (CC-Cco) + FeF (Fe-Feo)

Where,

Pi= Price payable per KM as adjusted in accordance with Price variation clause.

Po= Price per KM of cable as per Table given below

Table-2 Price per Km (Po and QCo) of S&T cables for Base month

SN	Description of Cable	Price (Rs./Km) as on 01.07.2022	Po and QCo
(1)	(2)	(3)	(4)
1.	Size 24Cx1.5 Sq mm	P24Co =354,316.00	The price of cables given in column (3) are
2.	Size 19Cx 1.5 Sq mm	P19Co =291,497.00	for the month of July 2022. These prices will be updated for Base
3.	Size 12Cx 1.5 Sq mm	P12Co =183,331.00	month as per Clause (h1) for calculating Po and QCo.
4.	Size 6Cx 1.5 Sq mm	P6Co =108,000.00	and QCO.
5.	Size 6Quad x0.9mm	QCo =242,727.00	

CuF= Variation factor for Copper

Cuo= Price of copper Rod in Rs. Per MT

CCFCu= Variation factor for PVC Compound for Copper Signalling & Telecom cable CCo= Price of PVC Compound in Rs. Per MT

AlF= Variation factor for Aluminium

Alo= Price of EC grade LME Aluminium rods (Properzi rods) in Rs. Per MT.

FeF= Variation factor for Steel

Feo= Price of Steel for Armour (Flat strip 4 mm. x 0.8mm/ Round 1.4mm dia) in Rs. Per MT

(Prices per MT for Cuo, CCo, Feo, Alo as applicable for the Base month. The above prices and indices are as published by IEEMA vide circular reference no. IEEMA (PVC) /CABLE for the Base month.)

Cu= Price of Copper Rod in Rs. Per MT.

CC= Price of PVC Compound in Rs. Per MT.

Fe= Price of Steel for Armouring (Flat strip 4mm x 0.8 mm/ Round 1.4mm dia) in Rs. Per MT.

Al = Price of EC grade LME Aluminium rods (Properzi rods) in Rs. Per MT.

(Prices per MT for Cu, CC, Fe, Al as prevailing on 1st working day of the calendar month covering the date One month prior to the date of inspection call letter will be applicable for the calculation of updated price. The above prices and indices are as published by IEEMA vide circular reference no. IEEMA (PVC) /CABLE one month prior to the date of inspection.)

The value of variation factors for copper, steel and PVC Compound are different for different sizes of signalling cables. Accordingly, the PVC formula for various types of signalling and Telecom cables is as given under:-

Underground Railway Signalling and Telecom Cable unscreened and armoured copper conductor.

- Size 24C x 1.5 sq.mm
 P24Ci= P24Co+0.313(Cu-Cuo)+ 0.481 (CC-CCo)+0.398(Fe-Feo)
 For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- ii) Size 19C x 1.5 sq.mm P19Ci= P19Co+0.248(Cu-Cuo) + 0.395(CC-CCo)+0.343(Fe-Feo) For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- iii) Size 12C x 1.5 sq.mm P12Ci=P12Co+0.157(Cu-Cuo) + 0.277(CC-CCu)+0.289(Fe-Feo) For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- iv) Size 6Cx 1.5 sq.mm
 P6Ci= P6Co+0.078(Cu-Cuo)+0.199(CC-CCu)+0.329(Fe-Feo)
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- v) For Jelly filled, 0.9mm dia, 6 quad cable PQCi = PQCo + 0.135 (Al-Alo) + 0.139 (Cu-Cuo) + 0.515 (CC-Cco) + 0.693 (Fe-Feo).

For PVC Compound Grade CW-22, is to be taken into consideration.

- i) The following expressions and meanings are assigned to the value of the work done for electrification works:
 - i) OHE = Value of work done for the completion of a stage under cost centre 'E1-Overhead Equipment Work' of Price Schedule 'A';

- ii) SP = Value of work done for the completion of a stage under cost centre 'E2-Switching Posts' of Price Schedule 'A';
- iii) TRANSAUX = Value of work done for the completion of a stage under cost centre 'E3-Auxiliary Transformer Station' of Price Schedule 'A';
- iv) TSS = Value of work done for the completion of a stage under cost centre 'E4-Traction Sub-Station' of Price Schedule 'A';
- v) SCADA = Value of work done for the completion of a stage under cost centre 'E5-SCADA' of Price Schedule 'A';
- vi) ELEGWK = Value of work done for the completion of a stage under cost centre 'E6-Various Electrical General Services Work'& 'E11-Solar Plants with complete accessories' of Price Schedule 'A'and;
- vii) EXTNLTPWRSPLY = Value of work done for the completion of a stage under cost centre 'E7- Extension of LT power supply for CLS work' of Price Schedule 'A';
- viii) EXTNPWRSUPLY = Value of work done for the completion of a stage under cost centre 'E8-Extension/Augmentation of general power supply' of Price Schedule 'A';
- ix) MODELETRICAL = Value of work done for the completion of a stage under cost centre 'E9-Modification to existing electrical works' of Price Schedule 'A';
- x) INVELECTRICAL = Value of work done for the completion of a stage under cost centre 'E10- Electrical Inventory/Spare Items' of Price Schedule 'A';
- j) Price adjustment for changes in cost for electrification works shall be paid in accordance with the following formula:
 - i) VOHE = 0.85 OHE x [PLB x (LBi LBo)/LBo + PC x (Ci Co)/Co + PSST x (SSTi SSTo)/SSTo + PCU x (CUi CUo)/CUo + PINS x (INSi INSo)/ INSo + PSWGR x (SWGRi SWGRo)/SWGRo];
 - ii) **VSP** = 0.85 SP x [PLB x (LBi LBo)/LBo + PC x (Ci Co)/ Co + PSWGR x (SWGRi SWGRo)/SWGRo+ PSST x (SSTi SSTo)/SSTo];
 - iii) **VTRANSAUX** = 0.85 TRANSAUX x [PLB x (LBi LBo)/LBo + PTR x (TRi TRo)/TRo];
 - iv) **VTSS** = 0.85 TSS x [PLB x (LBi LBo)/LBo + PTR x (TRi TRo)/TRo + PC x (Ci Co)/ Co + PSST x (SSTi SSTo)/SSTo + PSWGR x (SWGRi SWGRo)/SWGRo+ POTH x (OTHi OTHo)/OTHo];

- v) **VSCADA** = 0.85 SCADA x [PLB x (LBi LBo)/LBo + PELEX x (ELEXi ELEXo)/ELEXo+POTH x (OTHi – OTHo)/OTHo];
- vi) **VELEGWK** = 0.85 ELEGW x [PLB x (LBi LBo)/LBo + POTH x (OTHi OTHo)/OTHo];
- vii) **VEXTNLTPWRSPLY** = 0.85 EXTNLTPWRSPLY x [PLB x (LBi LBo)/LBo + POTH x (OTHi – OTHo)/OTHo];
- viii) **VEXTNPWRSUPLY** = 0.85 EXTNPWRSUPLY x [PLB x (LBi LBo)/LBo + POTH x (OTHi – OTHo)/OTHo];
- ix) **VMODELETRICAL** = 0.85 MODELETRICAL x [PLB x (LBi LBo)/LBo + POTH x (OTHi - OTHo)/OTHo];
- x) **INVELECTRICAL** = 0.85 INVELECTRICAL x [POTH x (OTHi OTHo)/OTHo]; Where:-

VOHE = Increase or decrease in the cost under cost centre 'E1' of Price Schedule 'A' of Over Head Equipment and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VSP = Increase or decrease in the cost under cost centre 'E2' of Price Schedule 'A' of Switching Post and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VTRANSAUX = Increase or decrease in the cost under cost centre 'E3' of Price Schedule 'A' of Auxiliary Transformer Station and other related works during the period under consideration due to changes in the rates for relevant components as specified in subparagraph (k);

VTSS = Increase or decrease in the cost under cost centre 'E4' of Price Schedule 'A' of Traction Sub-Station and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VSCADA = Increase or decrease in the cost under cost centre 'E5' of Price Schedule 'A' of SCADA and related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VELEGWK = Increase or decrease in the cost under cost centre 'E6' & 'E11' of Price Schedule 'A' of Various Electrical General Services Work and Solar Plants with complete accessories during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VEXTNLTPWRSPLY = Increase or decrease in the cost under cost centre 'E7' of Price Schedule 'A' of Extension of LT power supply for CLS work and related works during

the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VEXTNPWRSUPLY = Increase or decrease in the cost under cost centre 'E8' of Price Schedule 'A' of Extension/Augmentation of general power supply and related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VMODELETRICAL = Increase or decrease in the cost under cost centre 'E9' of Price -Schedule 'A' of Modification to existing electrical work and related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

VINVELECTRICAL = Increase or decrease in the cost under cost centre 'E10' of Price Schedule 'A' of Electrical Inventory/Spare item during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (k);

PLB, PC, PSST, PCU, PINS, PSWGR, PTR, PELEX, and POTH are the percentages of Labour, Cement, Structural Steel, Copper Wire, Insulators, Electrical Switch Gears, Transformer, Electronic Items and All Other Commodities respectively for the relevant item as specified in sub-paragraph (k);

Co = The wholesale price index as published by the Ministry of Commerce & Industry, Government of India (hereinafter called "WPI") for cement, lime, plaster for the Base month;

Ci = The WPI for cement, lime, plaster for the average price index of the 3 months of the quarter under consideration.

CUo = Copper: (CU) Price of Copper Wire Rod published by IEEMA for the Base month;

CUi = Copper : (CU) Price of Copper Wire Rod published by IEEMA for the average price index of the 3 months of the quarter under consideration;

ELEXO = The WPI for MANUFACTURE OF ELECTRONIC COMPONENTS electronic items for the Base month:

ELEXi = The WPI for MANUFACTURE OF ELECTRONIC COMPONENTS for the average price index of the 3 months of the quarter under consideration;

INSo = The WPI for insulators for the Base month;

INSi = The WPI for insulators for the average price index of the 3 months of the quarter under consideration;

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called "CPI") for the Base month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration

OTHo = The WPI for all commodities for the Base month;

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration;

SST₀= Price of BLOOMS – Retail (SBLR) 150mmx150mm published by IEEMA for the Base month:

SSTi = = Price of BLOOMS –Retail (SBLR) 150mmx150mm published by IEEMA for the average price index of the 3 months of the quarter under consideration;

SWGRo = The WPI for MANUFACTURE OF ELECTRICAL EQUIPMENT for the Base month;

SWGRi = The WPI for MANUFACTURE OF ELECTRICAL EQUIPMENT for the average price index of the 3 months of the quarter under consideration;

TRo= The WPI for transformers for the Base month;

TRi= The WPI for transformers for the average price index of the 3 months of the quarter under consideration.

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k) The following percentages shall govern the price adjustment of the Contract Price for electrification works:

(i) For Overhead Equipment work, Switching Post, Auxiliary Transformer Station, Traction Sub-Station:

Component	Over Head Equipment work except Commissioning and charging (E1)					Switching Posts –	Auxiliary transformer	Traction sub stations except Commissioning and charging (E4)			Commissio ning and	
	Foundation, mast erection, bracket, erection, insulators			Stringing of catenary and contact wire		Supply of all Electrical	stations – Completion of all works with	Transfor Mll works except trans-formers mers		trans-formers	charging of OHE, SP, Auxiliary	
	Comp letion of Desig n & drawi ng and Foun datio n work (E1.1)	Supply of steel (Mast and Portals compo nents only) (E1.2)	Completion of Steel erection (Mast & Portal) & grouting with painting of location Numbers (E1.3)	Completion of erection of Bracket, Guy Rod, anticreep (Complete pre wiring activity), Height gauge & protection screen, Provision of wire and rod insulators on LCs (E1.4)	Supply of Contact & Catena ry wire only (E1.5)	Completion of wiring along with erection of balance weight, dropping & clipping including antitheft charging (E1.6)	items, completio n of all works except commissio ning and charging (E2 –E2.1, E2.2)	testing except commissionin g (E3 –E3.1)	Supply and erection of transfor mers (E4.3)	Completion of all civil works for the TSS (works like earth filling, retaining wall, approach road, control building, fencing) (E4.1)	Completion of all supply and erection works of TSS except supply and erection of Transforme rs (E4.2)	Transforme r stations TSS at 25kV (E1.7, E2.3, E3.2, E4.4)
Labour (PLB)	22.00		28.00%	/		16.00%	24.00%	13.00%	2.00%	30.00%	5.00%	100.00%
Cement (PC)	78.00 %		35.00%	13.00%			22.00%			14.00%	9.00%	
Structural steel (PSST)		100.00	37.00%			27.00%	11.00%			8%	43.00%	
Insulators (PINS)						9.00%						
Copper wire (PCU)					100%	48.00%						
Transformer (PTR)								87.00%	98.00%			
Electrical Switch Gear (PSWGR)				87.00%			43.00%				43.00%	
All other commodities (POTH)										48%		

Component	Over Head Equipment work except Commissioning and charging (E1)					Switching Posts -	Auxiliary transformer	Traction sub stations except Commissioning and charging (E4)			Commissio ning and	
	Foundation, mast erection, bracket, erection, insulators		_	ng of catenary contact wire	Supply of all Electrical	stations – Completion of all works with	Transfor mers	All works except t	rans-formers	charging of OHE, SP, Auxiliary		
	Comp letion of Desig n & drawi ng and Foun datio n work (E1.1)	Supply of steel (Mast and Portals compo nents only) (E1.2)	Completion of Steel erection (Mast & Portal) & grouting with painting of location Numbers (E1.3)	Completion of erection of Bracket, Guy Rod, anticreep (Complete pre wiring activity), Height gauge & protection screen, Provision of wire and rod insulators on LCs (E1.4)	Supply of Contact & Catena ry wire only (E1.5)	Completion of wiring along with erection of balance weight, dropping & clipping including antitheft charging (E1.6)	items, completio n of all works except commissio ning and charging (E2 –E2.1, E2.2)	testing except commissionin g (E3 –E3.1)	Supply and erection of transfor mers (E4.3)	Completion of all civil works for the TSS (works like earth filling, retaining wall, approach road, control building, fencing) (E4.1)	Completion of all supply and erection works of TSS except supply and erection of Transforme rs (E4.2)	Transforme r stations TSS at 25kV (E1.7, E2.3, E3.2, E4.4)
Total	100.0 0%	100.00 %	100.00%	100.00%	100.00	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Corrigendum No.3 Attachment 1

(ii) For SCADA, Various Electrical General Services Work & Solar Plants with complete accessories, Extension of LT power supply for CLS, Extension/ augmentation of general power supply, Modification to existing electrical works:

Component	SCADA except commissi oning (E5 – E5.1, E5.2)	Various Electrical General Services Work accessories (E6 – E6.1, E6.2) & Solar Plants with complete accessories except commissioni ng (E11 – E11.1, E11.2)	Extension of LT power supply for CLS work except commissionin g (E7 – E7.1)	Extension/ augmentation of general power supply (E8 – E8.1)	Modificatio n to existing electrical works (E9 – E9.1)	Commissioni ng of SCADA system at Switching Post and Division, Extension of LT power supply for CLS work , Various Electrical General Services work and Solar Plants with complete accessories . (E5.3, E6.3, E7.2, E11.3)
Labour (PLB)	7.00%	20%	20.00%	20%	20.00%	100%
Electronics (PELEX)	87.00%	-	-	-	-	-
PVC Insulated Cable (PIC)	-	-	-	-	-	-
Fibre Cable (POFC)	-	-	-	-	-	-
All other commodities (POTH)	6.00%	80 %	80%	80%	80.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00 %

(iii) For Electrical Inventory/Spare item:

Component	Electrical Inventory/Spare item (E10 – E10.1)
Labour (PLB)	-
Electronics (PELEX)	-
PVC Insulated Cable (PIC)	-
Fibre Cable (POFC)	-
All other commodities (POTH)	100.00%
Total	100.00%

2. Schedule of Adjustment Data

Refer Clause 1 Price Adjustment of Appendix A to Financial Part

Table A: Deleted

Table B. Foreign Currency (FC)

Not applicable as Tenderer's are required to quote rates and prices only in INR.

Table C. Summary of Payment Currencies

For [insert name of Works]

	A	В	C	D
Name of Payment Currency	Amount of Currency	Rate of Exchange (local currency per unit of foreign)	Local Currency Equivalent C = A x B	Percentage of Net Tender Price (NTP) <u>100xC</u> NTP
For Schedule 'A'				
Local currency (INR)		1.00		
USD (\$)				
EUR (€)				
JPY (¥)				
Schedule 'B'		1.00		
Schedule 'C'		1.00		
Net Tender Price				100.00
Provisional Sums Expressed in Local Currency (INR) in million	100,000,000.00	1.00	100,000,000.00	Not Applicable
TOTAL TENDER PRICE (including provisional sum)				

Note: The Tenderer is required to propose and submit the schedules given in tables above as part of the Tender. The rates of exchange shall be the reference rate twenty-eight (28) days prior to the deadline for submission of Tenders published by the Reserve Bank of India (RBI) on its website https://www.rbi.org.in . In case the exchange rate of particular currency on given date is not available on RBI web site, it will be as per the web site https://www.fbil.org.in of Financial Benchmark India Private Limited (FBIL).

Appendix B to Financial Part: Price Schedules/R1

1 Preamble

- 1.1.The Price Schedules shall be read in conjunction with the Instructions to Tenderers, the General Conditions, the Particular Conditions and the Employer's Requirements (General Specifications, Design Requirements Criteria, Technical Specifications, Drawings) and the Addenda (if any).
- 1.2. Schedule 'A' comprises scope of work to be executed under lump sum contract as detailed in Part 2- Employers' Requirements of Tender Document. The Tenderer has to quote a single lump sum amount against Schedule 'A'. Payment to the Contractor will be made in accordance with payment stages/Milestones defined for each Cost Centre detailed below unless otherwise specified in the Contract.
- 1.3.**Schedule 'B'** comprise of percentage rate for Retaining Wall. The work has to be carried out as per the description of items given in Schedule 'B' and directions of the Engineer. The Tenderer has to quote the percentage Excess (+) or Less (-) over the basic amount given in the Schedule 'B'. The payment against this head will be made on the basis of quantities executed, measured and certified. Under this Schedule, the contractor has to do all works *of retaining walls* which are not covered in Schedule 'A', as per site requirements and as per the direction of the Engineer.
- 1.4.**Schedule 'C'** comprises miscellaneous items for Civil, Signalliing & Telecommunications and Unchartered Utility Shifting works. The work has to be carried out as per Schedule of items given in this Schedule 'C'. This Schedule contains only Rate and Unit of items of the works. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices quoted in the Price Schedules. The Tender has to quote the percentage (%) Excess (+) or Less (-) over the basic amount given in Schedule 'C' for items to be executed against this head. Under this Schedule, the Contractor has to undertake items or works not covered in Schedules 'A' and 'B' as per the requirements and directions of the Engineer.
- 1.5.The Schedules may not generally give a full description of the works to be performed and the plant or equipment to be supplied under each item. Tenderers shall be deemed to have read the Employer's Requirements and the other sections of the Tender Documents and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling the rates and prices.
- 1.6. The price quoted in the Price Schedules for Schedule 'A'. Schedule 'B' and Schedule 'C' are for complete and finished items of the work in all respects. The Price quoted in the Price Schedules shall, except in so far as it is otherwise provided under the Contract, shall include all design, include all necessary survey work, plants, tools, machinery, Contractor's

equipment, labour, compliance of labour laws, supervision, materials, transportation, handling, loading & unloading, storage, sampling, testing, fuel, oil, consumables, electric power, water, all leads & lifts, dewatering, all temporary works including temporary accesses, staging, form works and false works, stacking, provision and maintenance of all temporary works area, construction of temporary store and buildings, fencing, barricading, lighting, drainage arrangements, erection & maintenance of inspection facilities above and below ground such as brick, concrete and steel etc., reinstatement, remedy of any defects during the Defects Notification Period, safety measures for workmen and road users, preparation of design and drawings pertaining to permanent and temporary works, & traffic diversion works, mobilisation and demobilisation, establishment and overhead charges, labour camps, insurance cost for labour and works, contractor's profit, all taxes including Goods and Service Tax (GST), insurance, royalties, duties, cess, octroi, other levies and other charges together with all general risks, liabilities and obligations set out or implied in the Contract.

The price and rates quoted by Tenderer shall be deemed to have included GST at the rate of 18% as notified by 47th GST Council on 29th June 2022

- 1.7. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Price Schedules, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Work.
- 1.8.To the extent acceptable to the Employer for the purpose of making payments or partial payments, valuing variations or evaluating claims, or for such other purposes as the Engineer may reasonably require, the Contractor may provide the Engineer with a breakdown of any composite or lump sum items included in the Schedules.
- 1.9.The Provisional Sums included and so designated in the Price Schedules shall be expended in whole or in part at the direction and discretion of the Engineer. The Provisional Sum shall be used to cover the Employer's share of the DAAB members' fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAAB in accordance with Sub-Clause 13.4 of Part B-Specific Provisions Particular Conditions of Contract. The Contractor shall submit the DAAB members' invoices and satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those statements submitted under Sub-Clause 14.3. in accordance with Sub-Clauses 13.4 of the General Conditions.
- 1.10. The prices shall be quoted against Schedule 'A', Schedule 'B' and Schedule 'C' in the Price Schedule (Excel Workbook) uploaded on the e-Procurement portal.
- 1.11. The prices quoted shall be comprehensive and must include for complying in all respects with the Price Schedules, Instruction to Tenderers, the General Conditions, the Particular Conditions, Employer's Requirements, Specifications and Drawings and for all matters and things necessary for the proper construction, completion, and making good of any defect in

part or of the whole of the Works.

1.12.No claims for additional payment shall be allowed for any error or misunderstanding by the Contractor of the work involved.

2 Measurement and Payment

- 2.1 The measurement shall be made as per Price Schedules i.e. Schedule 'A'. Schedule 'B' and Schedule 'C' and other relevant provisions of the Contract such as Employer's Requirements and the Drawings.
- 2.2 If during execution of the Contract, it is decided by the Employer/Engineer that one or more items of Work/Milestone of a Cost Centre in a particular Price Schedule is not required to be executed, the proportionate amount against that particular Item of Work/Milestones shall not be paid. The Engineer's decision in this regard shall be final.
- 2.3 The Payment shall be made as per Clause 14 [Contract Price and Payment] of the General Conditions and Particular Conditions.

3 Procedures for Payment

- 3.1 The Employer shall make interim payments to the Contractor in accordance with the provisions of Sub-Clause 14.6 [Issue of Interim Payment Certificates] of the General Conditions and Particular Conditions, as certified by the Engineer on the basis of the progress achieved for the items of works/stages/Milestones of the works.
- 3.2 The Contractor shall base its claim for interim payment in accordance with Sub-Clause 14.3 [Application for Interim Payment] of the General Conditions and Particular Conditions for each stage for various items of work on the basis of actual progress of work executed (i.e. Milestones achieved) till the end of the month for which the payment is claimed in relation to the Contractor's total executed quantity, supported with documents and updated programme in accordance with the Employer's Requirements.
- 3.3 The Employer may carry out necessary tests, either directly or through an independent agency, of the Works done by the Contractor for which payment has been accepted and certified by the Engineer. The payment shall depend upon the outcome of such tests.
- 3.4 Format for the Contractor's application for payment shall be agreed between the Engineer and the Contractor.
- 3.5 All necessary supplementary details to support progress claims, including all certified Request for Inspection in hard bound copy, shall be included with application for payment. Sketches, drawings, approvals, calculations, test reports etc. shall accompany an application for payment to be substantiated and certified by the Engineer and submitted to the Employer.
- 3.6 Even if no work is executed during the month, or the Contractor does not choose to issue an application for payment, a 'NIL' application shall be submitted.
- 3.7 For the purposes of payment, the Contractor shall submit to the Engineer a detailed Price Schedule indicating a further breakdown for each stage of payment contained in the Price Schedules within forty-two (42) days after the receipt of the Letter of Acceptance. Such cost breakdowns shall be subject to approval of the Engineer who shall review and evaluate with

- comments and/or issue approval within twenty-eight (28) days of receipt of same. The Contractor shall resubmit the cost breakdown structure corresponding to the Engineer's comments for review, if required.
- 3.8 The Engineer is not obliged to issue an Interim Payment Certificate until such breakdown structure of payment schedule has been submitted and accepted by the Engineer.

4 Methodology for Claiming Payment

- 4.1 The Contractor shall prepare his monthly application for payment in the agreed format in two hard copies and one soft copy. This shall be accompanied by supplementary details in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates] of the General Conditions. All hard copies shall bear the original signatures of the Contractor's Representative and be submitted to the Engineer.
- 4.2 If these are found in order, in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] of the General Conditions, then the Engineer shall forward two certified copies of the application along with certified supplementary details to the Employer, with his recommendation for payment; otherwise, all documents shall be returned to the Contractor for rectification and resubmission.

5 Price Schedule

5.1 Schedule "A'- Breakup of Lump Sum cost of Works under various Sub-Heads shall be as follows:

Sub- Head	Description Percentage of the quoted lump sum cost of Schedule 'A'		No. of Cost Centres	Total Cost of each Sub-Head
1	2	3	4	5
С	Civil works	76.73	4	C= 0.7673xLS*
Е	OHE and General Electrical Services	12.51	11	E=0.1251x LS
S	Signalling works	08.51	10	S=0.0851x LS
Т	Telecom works	02.25	15	T=0.0225x LS

*LS = Total lump sum cost of Works for Schedule 'A'

5.2 Apportionment of Contract Price for payments under various Cost Centre for Sub-Head 'C'- Civil Works

Cost Centre	Description of Cost Centre	Percentage of Cost	Total Cost of Cost Centre	Total Cost of Sub- Head 'C'
		Centre 'C'	0 000 0 01101 0	110
1	2	3	4	5
CD	Design and As Built	05.00%	CD = 0.05x 'C'	76.73% of SCH 'A'
	Drawing &			
	Documents			
CE	Earthwork and	38.50%	CE=0.385x 'C'	
	blanketing			
CB	Bridges	49.50%	CE=0.495x 'C'	
CS	Station	07.00%	CE=0.07x 'C'	
	Total	100%		

Note: Value of 'C' shall be as defined in Sub-Clause 5.1 above.

The percentage figures as filled in column (3) by the Employer for the apportionment of the Contract Price for completion of the Works corresponding to the various Sub-Heads and Cost Centres are fixed and payment will be released for different Cost centre as per above percentage break-up of Contract Price.

5.2.1 Stages of Payment i.e. Milestones of Cost Centre 'CD'- Design and As Built Drawing & Documents

Cost Centre	Sub Cost	Item	of Work	Milestone	Weightage (X)	Weightage of Cost
	Centre	No.	Descriptio		(2 k)	Centre 'CD'
			n			(Y)
1	2	3	4	5	6	7
CD- Design	CD1-	CD1.1	Inception	Inception report	10%	5%
and As Built	Design		report			
Drawing & Documents		CD1 A			100/	
Documents		CD1.2	Formation	Definitive design &	10%	
				Good for Construction drawings (GFC)		
		CD1.3	Minor	drawings (GPC)		
		CD1.3.1		GAD	10%	
		CD1.3.2		Definitive design	10%	
		CD1.3.3		Good For Construction (GFC) drawings	8%	
		CD1.4	Major Bridge (substruct ure & bearings)			
		CD1.4.1		GAD	4%	
		CD1.4.2		Definitive design	4%	
		CD1.4.3		Good For Construction (GFC) drawings	4%	
		CD1.5	Retaining Wall			
		CD1.5.1		Definitive Design	5%	
		CD1.5.2		Good For Construction (GFC) drawings	5%	
		CD1.6	Station			
		CD1.6.1		Architectural/GAD drawings	4%	

Cost Centre	Sub Cost	Item of Work		Milestone	Weightage (X)	Weightage of Cost
	Centre	No.	Descriptio		(2 x)	Centre 'CD'
			n			(Y)
1	2	3	4	5	6	7
		CD1.6.2		Definitive Design	3%	
		CD1.6.3		Combined Services Drawings & MEP drawings	4%	
		CD1.6.4		Design and drawings for circulating area, passenger amenities, water supply, drainage, rainwater harvesting systems and landscaping	4%	
	CD2- As Built Drawin g & Docume nts	CD 2.1	As Built Drawings	On submission of As Built Drawings	10%	
		CD 2.2	As Built Documents	On submission of As Built Documents	5	
				Total	100%	

Note:

- 1. The value of each Milestones will be 76.73% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for CD 1.3.2, Value will be = 0.7673 of Lump sum quoted price of Sch A*X*Y= 0.7673*0.1 * 0.05 of lump sum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price pursuant to GCC 13.7 shall **NOT** be applicable to the payments of Works executed under this Cost Centre.
- 3. All minor bridge shall have equal weightage. Payment of each stage/Milestones shall be made on pro rata basis on completion of a stage for a bridge.
- 4. All major bridge shall have equal weightage. Payment of each stage/Milestones shall be made on pro rata basis on completion of a stage for a bridge.
- 5. All stations shall have equal weightage. Payment of each stage/Milestones shall be made on pro rata basis on completion of a stage for a station.
- 6. Payment will be made on Completion of each Milestones as per weightage given in this Cost Centre

5.2.2 Stages of Payment i.e. Milestones of Cost Centre 'CE'- Earthwork and Blanketing

Cost	Sub-Cost	Item of Work		Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
CE- Earthwork and Blanketing	CE.1- Earthwork	CE.1.1	Earthwork in formation from Ch 55.600 to 56.000 for double main line track.			38.5%
		CE.1.1.1		Earthwork in embankment / cutting including compaction.	6.2%	
		CE.1.1.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.4%	
		CE.1.1.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.2%	
		CE.1.2	Earthwork in formation from Ch 56.000 to 56.500 for double main line track.			
		CE.1.2.1		Earthwork in embankment/	8.2%	

Cost	Sub-Cost	Item	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				cutting including compaction.		
		CE.1.2.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.6%	
		CE.1.2.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted	0.2%	
		CE.1.3	Earthwork in formation from Ch 56.500 to 57.000 for double main line track.			
		CE.1.3.1		Earthwork in embankment / cutting including compaction.	6.3%	
		CE.1.3.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.4%	
		CE.1.3.3		On completion of maintenance period	0.2%	

Cost	Sub-Cost	Item	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				of 4 months for turfing, if the turfing is properly rooted.		
		CE.1.4	Earthwork in formation from Ch 57.000 to 57.300 for double main line track.			
		CE.1.4.1		Earthwork in embankment / cutting including compaction.	3.3%	
		CE.1.4.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.2%	
		CE.1.4.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.		
		CE.1.5	Earthwork in formation from Ch 57.300 to 57.500 in New Patli yard for main, loop & connecting			

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
			lines and platform area.			
		CE.1.5.1		Earthwork in embankment / cutting including compaction.	3.1%	
		CE.1.5.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.2%	
		CE.1.5.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.6	Earthwork in formation from Ch 57.500 to 58.000 in New Patli yard for main, loop & connecting lines and platform area.			
		CE.1.6.1		Earthwork in embankment /	8.2%	

Cost	Sub-Cost	Item	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				cutting including compaction.		
		CE.1.6.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.6%	
		CE.1.6.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.2%	
		CE.1.7	Earthwork in formation from Ch 58.000 to 58.500 in New patli yard for main, loop & connecting lines and platform area.			
		CE.1.7.1		Earthwork in embankment / cutting including compaction.	8.3%	
		CE.1.7.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory	0.6%	

	Cost	Sub-Cost	Item	of Work	Milestone	Weig	Weightag
С	entre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
	1	2	3	4	5	6	7
					roller, turfing & drainage arrangement complete in all respects.		
			CE.1.7.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.2%	
			CE.1.8	Earthwork in formation from Ch 58.500 to 58.700 in New Patli yard for main, loop & connecting lines and platform area.			
			CE.1.8.1		Earthwork in embankment / cutting including compaction.	2.7%	
			CE.1.8.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.2%	

Cost	Sub-Cost	Item	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.1.8.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.9	Earthwork in formation from Ch 58.700 to 59.200 for main line and Sultanpur connecting line.			
		CE.1.9.1		Earthwork in embankment / cutting including compaction.	3.5%	
		CE.1.9.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.3%	
		CE.1.9.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.2%	
		CE.1.10	Earthwork in formation from Ch 59.200 to			

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
			59.500 for double main line track.			
		CE.1.10.1		Earthwork in embankment / cutting including compaction.	2%	
		CE1.10.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.1%	
		CE1.10.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.11	Earthwork in formation from Ch 59.500 to 60.000 for double main line track.			
		CE1.11.1		Earthwork in embankment / cutting including compaction.	2.9%	
		CE.1.11.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage	0.2%	

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				arrangement complete in all respects.		
		CE.1.11.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.12	Earthwork in formation from Ch 60.000 to 60.500 for double main line track.			
		CE.1.12.1		Earthwork in embankment / cutting including compaction.	3.6%	
		CE.1.12.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.3%	
		CE.1.12.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.13	Earthwork in formation from Ch			

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
			60.500 to 61.000 for double main line track.			
		CE.1.13.1		Earthwork in embankment / cutting including compaction.	3.0%	
		CE.1.13.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.2%	
		CE.1.13.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.14	Earthwork in formation from Ch 61.000 to 61.500 for double main line track.			
		CE.1.14.1		Earthwork in embankment / cutting including compaction.	3.8%	
		CE.1.14.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing &	0.2%	

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				drainage arrangement complete in all respects.		
		CE.1.14.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.15	Earthwork in formation from Ch 0.614 to 1.000 for New Patli - Patli connecting line			
		CE.1.15.1		Earthwork in embankment / cutting including compaction.	1.5%	
		CE.1.15.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.1%	
		CE.1.15.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.1.16	Earthwork in formation from Ch 1.000 to 1.500 for New Patli - Patli connecting line.			
		CE.1.16.1		Earthwork in embankment / cutting including compaction.	1.5%	
		CE.1.16.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.1%	
		CE.1.16.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.17	Earthwork in formation from Ch 1.500 to Ch 2.000 for New Patli- Patli connecting line			

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.1.17.1		Earthwork in embankment / cutting including compaction.	0.6%	
		CE.1.17.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.1%	
		CE.1.17.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.05%	
		CE.1.18	Earthwork in formation from Ch 2.000 to Ch 2.500 for New Patli- Patli connecting line			
		CE.1.18.1		Earthwork in embankment / cutting including compaction.	0.2%	
		CE.1.18.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement	0.05%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				complete in all respects.		
		CE.1.18.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.05%	
		CE1.19	Earthwork in formation from Ch 2.500 to Ch 2.700 for New Patli- Patli connecting line	Earthwork in embankment / cutting including compaction.	0.05%	
		CE.1.20	Earthwork in formation from Ch 0.703 to 1.500 for New Patli-Sultanpur connecting line			

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.1.20.1		Earthwork in embankment / cutting including compaction.	2.3%	
		CE.1.20.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.1%	
		CE.1.20.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.21	Earthwork in formation from Ch 1.500 to 2.000 for New Patli- Sultanpur connecting line			
		CE.1.21.1		Earthwork in embankment / cutting including compaction.	1.9%	
		CE.1.21.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement	0.1%	

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				complete in all respects.		
		CE.1.21.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.1%	
		CE.1.22	Earthwork in formation from Ch 2.000 to 2.500 for New Patli- Sultanpur connecting line			
		CE.1.22.1		Earthwork in embankment / cutting including compaction.	1.3%	
		CE.1.22.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.05%	
		CE.1.22.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.05%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.1.23	Earthwork in formation from Ch 2.500 to 3.000 for New Patli-Sultanpur connecting line			
		CE.1.23.1		Earthwork in embankment / cutting including compaction.	1.3%	
		CE.1.23.2		On cutting of extra 0.5 m earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects.	0.05%	
		CE.1.23.3		On completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.05%	
		CE.1.24	Earthwork in formation from Ch 3.000 to 3.500 for New Patli-Sultanpur connecting line	Earthwork in embankment / cutting including compaction. Cutting of extra earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement	0.3%	

Cost	Sub-Cost	Item	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
				complete in all respects and on completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.		
		CE.1.25	Earthwork in formation from Ch 3.500 to 4.000 for New Patli- Sultanpur connecting line	Earthwork in embankment / cutting including compaction. Cutting of extra earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects and on completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.	0.05%	
		CE.1.26	Earthwork in formation from Ch 4.000 to 4.119 for New Patli- Sultanpur connecting line	Earthwork in embankment / cutting including compaction. Cutting of extra earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all	0.05%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.1.27	Earthwork	respects and on completion of maintenance period of 4 months for turfing, if the turfing is properly rooted. Earthwork in	0.10%	
			in formation in Sultanpur Station yard (Km 0.861 towards Garhi Harsaru side & Km 0.530 towards Badsa side)	embankment / cutting including compaction. Cutting of extra earthwork on slopes, compaction with vibratory roller, turfing & drainage arrangement complete in all respects and on completion of maintenance period of 4 months for turfing, if the turfing is properly rooted.		
	CE.2- Blanketin g	CE.2.1	Blanketing from Ch 55.600 to 56.000 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.5%	
		CE.2.2	Blanketing from Ch 56.000 to 56.500 for	Blanketing on subgrade/ prepared subgrade as per design profile including	0.7%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
			double main line track.	compaction complete in all respects.		
		CE.2.3	Blanketing from Ch 56.500 to 57.000 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.7%	
		CE.2.4	Blanketing from Ch 57.000 to 57.300 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.5%	
		CE.2.5	Blanketing from Ch 57.300 to 57.500 in New Patli yard for main, loop & connecting lines.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.7%	
		CE.2.6	Blanketing from Ch 57.500 to 58.000 in New Patli yard for main, loop & connecting lines.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	1.8%	

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
		CE.2.7	Blanketing from Ch 58.000 to 58.500 in New pathi yard for main, loop & connecting lines.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	1.5%	
		CE.2.8	Blanketing from Ch 58.500 to 58.700 in New Patli yard for main, loop & connecting lines.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.8%	
		CE.2.9	Blanketing from Ch 58.700 to 59.200 for main line and Sultanpur connecting line.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	1.2%	
		CE.2.10	Blanketing from Ch 59.200 to 59.500 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.5%	
		CE.2.11	Blanketing from Ch	Blanketing on subgrade/ prepared	0.6%	

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
			59.500 to 60.000 for double main line track.	subgrade as per design profile including compaction complete in all respects.		
		CE.2.12	Blanketing from Ch 60.000 to 60.500 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.6%	
		CE.2.13	Blanketing from Ch 60.500 to 61.000 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.6%	
		CE.2.14	Blanketing from Ch 61.000 to 61.500 for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.6%	
		CE.2.15	Blanketing from Ch 0.614 to 1.000 for New Patli - Patli connecting line	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.2%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE'
						(Y)
1	2	3	4	5	6	7
		CE.2.16	Blanketing from Ch 1.000 to 1.500 for New Patli - Patli connecting	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all	0.4%	
		CE.2.17	line. Blanketing from Ch 1.500 to Ch 2.000 for New Patli - Patli connecting	respects. Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all	0.4%	
		CE.2.18	line Blanketing from Ch 2.000 to Ch 2.500 for New Patli- Patli connecting line	respects. Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.4%	
		CE.2.19	Blanketing from Ch 2.500 to Ch 2.700 for New Patli - Patli connecting line	Blanketing on subgrade/ prepared subgrade as per	0.4%	
		CE.2.20	Blanketing from Ch 0.703 to 1.500 for New Patli- Sultanpur	Blanketing on subgrade/ prepared subgrade as per design profile including compaction	0.4%	

Cost	Sub-Cost	Item o	of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage (X)	e of Cost Centre 'CE' (Y)
1	2	3	4	5	6	7
			connecting line	complete in all respects.		
		CE.2.21	Blanketing from Ch 1.500 to 2.000 for New Patli-Sultanpur connecting line	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.4%	
		CE.2.22	Blanketing from Ch 2.000 to 2.500 for New Patli-Sultanpur connecting line	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.4%	
		CE.2.23	Blanketing from Ch 2.500 to 3.000 for New Patli-Sultanpur connecting line	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.4%	
		CE.2.24	Blanketing from Ch 3.000 to 3.500 for New Patli-Sultanpur connecting line	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.4%	
		CE.2.25	Blanketing from Ch 3.500 to 4.000 for	Blanketing on subgrade/ prepared subgrade as per design profile	0.4%	

Cost	Sub-Cost	Item (of Work	Milestone	Weig	Weightag
Centre	Centre	No.	Description		htage	e of Cost
					(X)	Centre 'CE'
						(Y)
1	2	3	4	5	6	7
			New Patli-	including		·
			Sultanpur	compaction		
			connecting	complete in all		
			line	respects.		
		CE.2.26	Blanketing	Blanketing on	0.1%	
			from Ch	subgrade/ prepared		
			4.000 to	subgrade as per		
			4.119 for	design profile		
			New Patli-	including		
			Sultanpur	compaction		
			connecting	complete in all		
		GE 2 25	line	respects.	0.50/	
		CE.2.27	Blanketing	Blanketing on	0.5%	
			in Sultanpur	subgrade/ prepared		
			Station yard	subgrade as per		
			(Km 0.861	design profile		
			towards	including		
			Garhi	compaction		
			Harsaru side & Km 0.530	complete in all		
			towards	respects.		
			Badsa side)			
			Dausa side)	Total	100%	
				า บเลา	10070	

Note:

- 1. Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Sub Heads / Price Schedule.
- 2. Payment will be made on Completion of each Milestones as per weightage given in this schedule.

5.2.3 Milestones of Cost Centre 'CB'- for Bridges

Cost	Sub-cost	It	tem of Work	Milestone	Weig	Weightage
Centre	Centre	No.	Description		htage (X)	of Sub- Cost Centre 'CB' (Y)
1	2	3	4	5	6	7
CB- Bridges	CB1- Minor Bridges	CB1.1	Construction of minor bridge No. Nil between ch 55.600 to 56.000 for main line track.	On completion of RCC box bridge including *	0%	49.5%
		backfill, p plaque, p arrangeme complete a	Il, return wall, drop we rotection works, inspection in the painting of HFL, in the road works in RUB as per approved drawing	ction steps, bridge theight gauge, design sand other balances of the transfer to the transfer	number rainage e works	
		CB.1.2	Construction of minor bridge Nos. 137,138 & 139 between ch 56.000 to 56.500 for main line track.	On completion of RCC box bridge including *	5.11%	
		CB1.3	Construction of minor bridge No. 140 between ch 56.500 to 57.000 for main line track.	On completion of RCC box bridge including	0.76%	
		CB1.4	Construction of minor bridge No. 141 between ch 57.000 to 57.300 for main line track.	On completion of RCC box bridge including	2.92%	
		CB.1.5	Construction of minor bridge No. Nil between ch 57.300 to 57.500 for main & New patli -Patli connecting lines.	On completion of RCC box bridge including	0%	
		CB1.6	Construction of minor bridge No. 142, 143 & 144 between ch 57.500 to 58.000 in	On completion of RCC box bridge including	11.76 %	

Cost	Cost Sub-cost Centre Centre		tem of Work	Milestone	Weig htage	Weightage of Sub-
Centre	Centre	No.	Description		(X)	Cost Centre 'CB' (Y)
			New Patli yard.			
		CB1.7	Construction of minor bridge No.145 between ch 58.000 to 58.500 in New Patli yard.	On completion of RCC box bridge including	3.52%	
		CB1.8	Construction of minor bridge No.146 between ch 58.500 to 58.700 in New Patli yard.	On completion of RCC box bridge including *	0.83%	
		CB.1.9	Construction of minor bridge No. Nil between ch 58.700 to 59.200 for main & New Patli-Sultanpur connecting lines.	On completion of RCC box bridge including *	0%	
		CB.1.10	Construction of minor bridge No. Nil between ch 59.200 to 59.500 for main line.	On completion of RCC box bridge including *	0%	
		CB1.11	Construction of minor bridge No.149 between ch 59.500 to 60.000 for main line track.	On completion of RCC box bridge including *	1.76%	
		CB1.12	Construction of minor bridge No.150 between ch 60.000 to 60.500 for main line track.	On completion of RCC box bridge including *	2.16%	
		CB1.13	Construction of minor bridge No.151A, 151B, 151C & 151D between ch 60.500 to	On completion of RCC box bridge including *	24.9%	

Cost Centre	Cost Sub-cost Centre Centre		tem of Work	Milestone	Weig htage	Weightage of Sub-
		No.	Description		(X)	Cost Centre 'CB' (Y)
			61.000 for main line track			
		CB1.14	Construction of minor bridge No. 152 between ch 61.000 to 61.500 for main line track.	On completion of RCC box bridge including *	0.62%	
		CB1.15	Construction of minor bridge No. 3 between Ch 0.614 to 1.000 for New Patli to Patli connecting line.	On completion of RCC box bridge including *	1.19%	
		CB1.16	Construction of minor bridge No. 4 between ch 1.000 to 1.500 for New Patli to Patli connecting line.	On completion of RCC box bridge including	0.37%	
		CB1.17	Construction of minor bridge no. 5 between ch 1.500 to 2.000 for New Patli to Patli connecting line.	On completion of RCC box bridge including *	0.48%	
		CB1.18	Construction of minor bridge No. 6 between ch 2.000 to 2.500 for New Patli to Patli connecting line	On completion of RCC box bridge including	2.55%	
		CB1.19	Construction of minor bridge No. 7 between ch 2.500 to 2.700 for New Patli to Patli connecting line	On completion of RCC box bridge including	0.24%	
		CB1.20	Construction of minor bridge No. Nil between ch 0.703 to 1.500 for New Patli to Sultanpur connecting line	On completion of RCC box bridge including	0%	

Cost Centre	Sub-cost Centre	I	tem of Work	Milestone	Weig htage	Weightage of Sub-
Centre	Centre	No.	Description		(X)	Cost Centre 'CB' (Y)
		CB1.21	Construction of minor bridge Nos. 1 & 2 between ch 1.500 to 2.000 for New Patli to Sultanpur connecting line	On completion of RCC box bridge including *	1.35%	
		CB1.22	Construction of minor bridge No. Nil between ch 2.000 to 2.500 for New Patli to Sultanpur connecting line	On completion of RCC box bridge including *	0%	
		CB1.23	Construction of minor bridge Nos. 3 & 4 Between ch 2.500 to 3.000 for New Patli to Sultanpur connecting line	On completion of RCC box bridge including *	1.46%	
		CB1.24	Construction of minor bridge No. Nil between ch 3.000 to 3.500 for New Patli to Sultanpur connecting line	On completion of RCC box bridge including *	0%	
		CB1.25	Construction of minor bridge No. Nil between ch 3.500 to 4.000 for New Patli to Sultanpur connecting line		0%	
		CB1.26	Construction of minor bridge No. Nil between ch 4.000 to 4.119 for New Patli to Sultanpur connecting line	On completion of RCC box bridge including	0%	

Cost Centre	Sub-cost Centre	I	tem of Work	Milestone	Weig htage	Weightage of Sub-
		No.	Description		(X)	Cost Centre 'CB' (Y)
		CB1.27	Construction of minor bridge No. Nil Sultanpur Station yard	On completion of RCC box bridge including *	0%	
	CB.2- Major Bridges	CB.2.1	Foundation	On completion of the foundation work including pile caps/ well caps and foundations for wing and return walls, and testing.	7.0%	
		CB.2.2	Substructure	On Completion of Abutment/Piers including Abutment/Pier Cap without bearings.		
		CB.2.2.1		Pier/Abutment	3%	
		CB.2.2.2		Pier/Abutment cap	0.5%	
		CB.2.2.3		Completion of the wing walls, return walls in all respects	1.4%	
		CB.2.3	Superstructure			
		CB.2.3.1		On completion superstructure including launching in position.	20%	
		CB.2.3.2		On fixing of bearings in position true to line & level and	1.6%	

Cost Centre			tem of Work	Milestone	Weig htage	Weightage of Sub-
		No.	Description		(X)	Cost Centre 'CB' (Y)
				placement of superstructure on bearings including grouting of holding down bolts complete.		
		CB.2.4	Track works		0.00	
		CB.2.4.1		Transportation/s hifting of rails	0.2%	
		CB.2.4.2		On completion of installation of track on H-beam sleepers including fixing	0.82%	
				of guard rails, gang pathway.		
		CB.2.5	Miscellaneous works	gung pumway.		
		CB.2.5.1		On completion of Trolley refuse, Pathway on the sides, Inspection arrangement including access ladder etc.as per approved drawings and Employers requirement,	1%	
		CB.2.5.2		On completion of balance works as per drawing like-Protection works including Toe wall, Pitching, inspection steps,	2.5%	

Cost Centre	Sub-cost Centre	It	tem of Work	Milestone	Weig htage	Weightage of Sub-
		No.	Description		(X)	Cost Centre 'CB' (Y)
				Bridge plaque, Bridge board, painting of HFL, Height Gauge, drainage arrangement in RUBs, and Testing on completion, if any, complete in all respect and fit for use.		
				Total	100%	

Note:

- 1. Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Sub Head / Price Schedule.
- 2. Payment will be made on Completion of each Milestones as per weightage given in this schedule.
- 3. CB2.2-Major Bridges:
 - For the purpose of stage payment/Milestones, cost of a bridge shall be taken in proportion to its linear length measured along the alignment to the total linear length of all major bridges.
 - (ii) Payment of each stage/Milestones for a bridge will be made on completion of the relevant stage as per the weightage given in this schedule in proportion to the cost of the bridge.
- 4. Stages CB.2.1 to CB.2.2 will further be subdivided into the number of piers + 2 abutments, as applicable as per approved drawing by the Engineer, and Milestones for completed work for each pier and abutment shall be made as per the requirement of the stages stated above.
- 5. For steel Open Web Girder (OWG) and Composite girders payment against Cost centre CB.2.3.1 shall be released as per following schedule-

(i)	Receipt of material at approved location:	40%
\ - /	, 110001pt of 11100011011 on upp10 (00 10001011)	.0,0

(ii) Fabrication of girder and transportation to site: 25%

(iii)Erection/launching and completion of all other balance works: 35%, and for PSC girder/slabs payment against sub cost centre 2.3.1 shall be released as per following schedule-

(i) On casting of PSC girder/slabs: 50%

(ii) On first stage prestressing: 20%

(iii) On completion in all respect: 30%

5.2.4 Stages of Payment i.e. Milestones of Cost Centre 'CS'- Stations

Cost Centre	Sub-	Sub- Cost Item of Work		Milestone	Weightage	Weightage of Cost
Centre	Centre	No.	Description		(X)	Centre 'CS' (Y)
1	2	3	4	5	6	7
CS- Station	CS.1- Sultanpur Station	CS.1.1	Station building	Construction of railway station buildings and service buildings complete in all respects including fixing doors, windows, sanitary, water supply works and all other specified and incidental works.	4.9%	7%
		CS.1.2	Platform			
		CS.1.2.1		Construction of platforms including earthwork in filling above formation level, platform wall but excluding items mentioned in item no 1.2.2 and 1.2.3 as shown in tender drawings & TS	10.5%	
		CS.1.2.2		Surfacing of platforms.	2.5%	
		CS.1.2.3		Provision of passenger amenities including shelters.	2.3%	
		CS.1.3	Drainage works of station	On completion of drainage works of station yard & platform as shown in tender drawings & TS	0.8	
		CS.1.4	Misc. works	On completion of water supply works including bore well, pump house, storage tank, sanitary works, pathway for passengers across tracks,	2.48%	

Cost Centre	Sub- Cost	Item	of Work	Milestone	Weightage (X)	Weightage of Cost
	Centre	No.	Description		(12)	Centre 'CS' (Y)
1	2	3	4	5	6	7
				station name board, signages, rain water harvesting, approach road to station and other incidental works in railway station area.		
	CS.2 New Patli Station	CS.2.1	Station building			
	Station	CS.2.1.1		On completion of earthwork in filling below station building, ramp, staircase and between station building & adjacent track	1.0%	
		CS.2.1.2		Construction of railway station buildings and service buildings complete in all respects including fixing doors, windows, sanitary, water supply works and all other specified and incidental works.	8%	
		CS.2.1.3		On completion of stairs & ramp connected to station building.	2.6%	
		CS.2.2	Platform			
		CS.2.2.1		Construction of platforms including earthwork in filling above formation level platform fencing /Wall but excluding items mentioned in item no 2.2.2 and 2.2.3 as shown in tender drawings & TS.	7.4%	

Cost	Cost Sub- Item of Work Centre Cost		Milestone	Weightage (X)	Weightage of Cost	
Centre	Centre	No.	Description		(A)	Centre 'CS' (Y)
1	2	3	4	5	6	7
		CS.2.2.2		Surfacing of platform in the full length.	6.0%	
		CS.2.2.3		Provision of passenger amenities including shelters.	7.0%	
		CS2.3	Subway			
		CS2.3.1		On completion of barrel of RCC box.	9.5%	
		CS2.3.2		On completion stairs to platform including shed, lift well & provision for escalator.	2.5%	
		CS2.3.3		On completion of subway in all respect including surfacing, drainage, railing etc. complete.	3.5%	
		CS2.4	Retaining Wall	On completion of retaining wall at entrance near the subway including filter layer & backfill complete in all respects.	19%	
		CS.2.5	Drainage works of station	On completion of drainage works of station yard & platform as shown in tender drawings & TS	5.25	
		CS.2.6	Misc. works	On completion of water supply works including bore well, pump house, storage tank, sanitary and plumbing works, pathway for passengers across tracks, station name board, signages, rain water harvesting,	4.77%	

Cost Centre	Sub- Cost	Item of Work		Milestone	Weightage (X)	Weightage of Cost
	Centre	No.	Description		()	Centre 'CS' (Y)
1	2	3	4	5	6	7
				station internal road and other incidental works in railway station area.		
				Total	100%	

Note:

- 1. Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Sub Head / Price Schedule.
- 2. CS1.1 and CS2.1 Station Building- Unit of measurement is plinth area in square meters. For the buildings having more than one storey, the total area shall be found out by adding the area of each storey. Unit cost shall be determined on pro rata basis with respect to the total area of all stations and service buildings.
 - 50% Payment shall be paid after completion of structural works i.e beam, columns & slab in case of framed structure or walls & slabs in case of other buildings and
 - 30% Payment shall be paid after completion of finishing and
 - 20% Payment on final completion of works in all respects ready for use.
- 3. CS 1.2 and CS 2.2 Platform- Unit of measurement is area measured in square meter. Unit cost shall be determined on pro rata basis with respect to the total area of all platforms at the station.
- 4. CS 2.5 Retaining Wall- Unit of measurement is linear length. Payment shall be made on pro rata completion of a stage. *Retaining wall at entrance near subway* is part of lump sum Schedule "A" and shall not be paid under Schedule "B".
- 5. Payment will be made on Completion of each Milestones as per weightage given in this schedule.
- 6. Variation in 'Station building':
 - In case of variation in the floor area of any station *and service building* on either side i.e. increase or decrease with respect to the area shown in the Tender Drawings, the total value of station as mentioned in Sub-Cost Centre CS1.1 and CS2.1 as applicable will get modified accordingly on pro rata basis of floor area.

6.0 APPORTIONMENT OF THE CONTRACT PRICE FOR SCHEDULE A UNDER VARIOUS COST CENTRE FOR SUB-HEAD OHE AND GENERAL ELECTRICAL SERVICES

Cost Centre	Description of Cost Centre	Percentage of Cost	Total Cost of Cost Centre	Total Cost of Sub-Head
		Centre		"E"
1	2	3	4	
E1	Overhead Equipment work	67.52%	E1=0.6752 x "E"	
E2	Switching Post	8.91%	E2=0.0891 x "E"	
E3	Auxiliary Transformer Station	0.34%	E3=0.0034 x "E"	
E4	Traction Sub-Station	NIL	NIL	
E5	SCADA	0.44%	E5=0.0044 x "E"	
E6	Various Electrical General Services Work	12.30%	E6=0.1230 x "E"	12.51% of Schedule 'A"
E7	Extension of LT power supply for CLS work	0.67%	E7=0.0067 x "E"	
E8	Extension/Augmentation of general power supply	0.38%	E8=0.0038 x "E"	
E9	Modification to existing electrical work	0.005%	E9=0.00005 x "E"	
E10	Electrical Inventory/Spare item	4.765%	E10=0.04675x"E"	
E11	Solar Plants with complete accessories	2.72%	E11=0.0272x"E"	
E12	Maintenance and Manning	1.95%	E12=0.0195x"E"	
	Total	100%		

Corrigendum No.3

6.1 Stages of Payment i.e. Milestones of cost centre E1 – Overhead Equipment Work.

Cost	Sub	I	tem Of Work		Weightage	Weightage of Cost
Centre	Cost Centre	No	Description	Milestone	(X)	Centre "E1" (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	E1	E1.1	Drawings & Design and Foundation work	Completion of Design & drawing and Foundation work yards	13.50%	
		E1.2 Supply of Mast & Portal componer only) Completion steel erection steel erection of location numbers Completion erection of other OHE items Completion erection of other othe		components only)	24.57%	
				Completion of steel erection (Mast & Portal) & grouting with painting of location numbers	7.75%	
E1 Overhead Equipment Work			activity), Height gauge & protection	8.67%	67.52%	
		E1.5	Supply of Contact & catenary wire	Supply of Contact & Catenary wire	25.78%	

		only		
E1.6	Wiring & other items	Completion of wiring along with erection of balance weight, dropping & clipping including antitheft charging	14.70%	
E1.7	Commissioning	Commissioning and charging at 25kv	5.03%	
		Total	100%	

Note:

- 1 The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E1.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y=0.1251 x 0.1350x0.6752 of lumpsum quoted price of Schedule 'A'.
- 2 Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E1'.
- **3** Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- **4** Payment for each Milestone shall be made on TKM basis measured on pro rata basis with reference to total TKM.
- 5 Payment against the Sub Cost Centre E1.2 and E1.5 shall be made for quantities as per the Approved Layout, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.
- **6** Payment against the Sub Cost Centre E1.7 shall be made only on completion of work under Sub Cost Centre E2.3.

Cost	Sub Cost		em Of Work	Milestone	Weightage	Weightage of Cost
Centre	Centre	No	Description	vinestone	(X)	Centre 'E2' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	E2	E2.1	Supply of all Electrical Item <i>as</i> per PS (Section VII-7)	Supply of all electrical item	70%	8.91%
E2- Swiching Posts		E2.2	Completion of Switching Posts as per PS (Section VII-7)	Completion of all works	20%	6.7170
Posts		E2.3	Commissioning of Switching Posts	Commissioning and charging at 25 KV.	10%	
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E2.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 0.7 x 0.0891 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E2'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 4. Payment shall be made for each Milestone for a switching post, measured in number of switching posts on pro rata basis with reference to the total switching posts covered in this Package.

6.3 Stages of Payment i.e., Milestones of cost center E3 – Auxiliary Transformers **Stations**

Cost Centre	Sub Cost Centre	Item Of Work		Milestone	Weightage	Weightage of Cost Centre
	Centre	No	Description		(X)	'E3'(Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E3-Auxilary Transformers	E3	E3.1	Auxiliary Transformer Stations	Completion of all works with testing	90%	0.34%
Stations		E3.2		Commissioning and charging at 25 kV	10%	
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E3.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 0.9 x 0.0034 of lumpsum quoted price of Schedule 'A'.
- Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E3'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 4. Payment shall be made for each Milestone for Auxiliary Transformer at each Station or Switching post, measured in number of Auxiliary Transformers on pro rata basis with reference to the total Auxiliary Transformers covered in this Package.

Attachment 1

6.4 Stages of Payment i.e., Milestones of cost center E4 – Traction Sub-Station

Cost Centre	Sub Cost Centre	Item Of Work				Weightage of Cost
		No	Description	Milestone	Weightage (X)	Centre 'E4' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E4- Traction Sub station	E4	E4.1	Traction Substations	Completion of all civil works for the TSS (works like earth filling, retaining wall, approach road, control building, fencing	NIL	NIL
		E4.2	Completion of all supply and erection works of TSS except supply and erection of Transformers	NIL	NIL	NIL
		E4.3	Supply and erection of transformers	NIL	NIL	NIL
		E4.4	Completion and commissioning of TSS and charging at 25 KV.	NIL	NIL	NIL
				Total	NIL	

6.5Stages of Payment i.e., Milestones of Cost Centre E5 – SCADA

Coat	Sub Cost	Iten	n Of Work		Waightaga	Weightage of Cost
Cost Centre	Sub Cost Centre	No	Description	Milestone	Weightage (X)	Centre 'E5' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		E5.1		Supply and erection of SCADA at remote control center at division	22.08%	
E5- SCADA	E5	E5.2	SCADA	Supply and erection of remote terminal units at switching post.	59.58%	0.44%
		E5.3		Commissioning of SCADA system at Switching Post and Division	18.34%	
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E5.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 0.2208 x 0.0044 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E5'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.

6.6 Stages of Payment i.e., Milestones of cost center E6 – Various Electrical General Services Works

		Ite	em Of Work			Weightage of Cost	
Cost Centre	Sub Cost Centre	No	Description	Milestone	Weightage (X)	Centre 'E6' (Y)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
E6- Various Electrical General Services	E6	E6.1	Various Electrical General services works	Supply of Major Electrical Item (like- CSS, DG, all type of Panels, cables, octagonal poles and LED light fittings)	65%	12.30%	
Works		E6.2	SCIVICCS WOIKS	Erection	20%		
WOIKS		E6.3		Commissioning of various electrical general services items	15%		
				Total	100%		

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E6.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 0.65 x 0.1230 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E6'.
- Payment will be made on completion of each Milestones as per weightage given in this 3. Cost Centre.
- Payment shall be made for each Milestone after completion of related work on pro rata 4. basis for individual station wise on basis of percentages given as (Manesar -6.59%, New Patli-4.59% and Sultanpur-1.12%).

6.7 Stages of Payment i.e., Milestones of cost center E7 – Extension of LT power supply for CLS works

Cost	Sub Cost	Ite	em Of Work	Milestone	Weightage	Weightage of Cost
Centre	Centre	No	Description	Winestone	(X)	Centre 'E7' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E7 Extension		E7.1		Completion of work including	90%	
of LT			Extension of LT	testing.		
power supply for CLS works	E7	E7.2	power supply for CLS Works	Commissioning	10%	0.67%
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E7.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 0.90 x 0.0067 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E7'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 4. Payment shall be made for each Milestone after completion of related work on pro rata basis for individual station wise on basis of percentages given as (Manesar-0.26%, New Patli-0.26%, Sultanpur-0.15%)

6.8 Stages of Payment i.e., Milestones of cost center E8 – Extension/Augmentation of General power supply

	Item Of Work				Weightag	
Cost Centre	Sub Cost Centre	No	Description	Milestone	Weightage (X)	e of Cost Centre 'E8' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E8- Extension/ Augmenta tion of General power supply	E8	E8.1	Extension/Aug mentation of General power supply	Completion including commissioning	100%	0.38%
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E8.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 1 x 0.0038 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E8'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 4. Payment shall be made for each Milestone after completion of related work on pro rata basis for individual station wise on basis of percentages given as (Manesar-0.26%, New Patli-0.11% and Sultanpur-0.01%)

6.9 Stages of Payment i.e., Milestones of cost center E9 – Modification to existing *electrical* works

	Sub	Ite	m Of Work		Weightege	Weightage of Cost
Cost Centre	Cost Centre	No	Description	Milestone	Weightage (X)	Centre 'E9' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E9- Modification to existing electrical works	E9	E9.1	Modification to existing electrical works	Modification Dismantling, Transportation of existing electrical structure/material including all associated work and testing at existing Sultanpur Station	100%	0.005%
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E9.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 1.0 x .00005 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E9'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.

6.10 Stages of Payment i.e., Milestones of cost center E10 - Electrical Inventory/Spare Item

Cost Centre	Sub	Ite	em Of Work		Waightogo	Weightage of Cost
	Cost Centre	No	Description	Milestone	Weightage (X)	Centre 'E10' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E10 Electrical Inventory/Spare item	E10	E10.1	Electrical Inventory/Spare item	Supply of tools equipment, Materials for supply to stores	100%	4.765%
				Total	100%	

Note:

- 1 .The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E10.1, Value will be 0.1251 of Lump sum quoted price of Sch A * $X * Y = 0.1251 \times 1.0 \times 0.04765$ of lumpsum quoted price of Schedule 'A'.
- 2.Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E10'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.

6.11 Stages of Payment i.e., Milestones of cost center E11 – Solar Plants with complete accessories

	G I	Ite	em of Work			Weightage
Cost Centre	Sub Cost Centre	No	Description	Milestone	Weightage (X)	of Cost Centre 'E11' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E11- Solar Plants with	E11	E11.1 E11.2	Supply, Installation, Testing & Commissioning of	Supply of electrical item(like – solar panels and inverter) Completion of all work as per PS (Section VII	70%	2.72%
complete accessories		E11.3	solar plants with complete accessories	X) Commissioning of solar plants in all respect	10%	
				Total	100%	

Note:

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E11.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 0.70 x 0.0272 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E11'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 4. Payment shall be made for each Milestone after completion of related work on pro rata basis for individual station wise on basis of percentages given as (Manesar-1.74%, New Patli-0.87% and Sultanpur-0.11%).

6.12 Stages of Payment i.e., Milestones of cost center E12 – Maintenance and Manning

Cost Centre	Sub	Iter	n of Work		Weightege	Weightage of Cost
	Cost Centre	No	Description	Milestone	Weightage (X)	Centre 'E12' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E12 Maintenance and Manning	E12	E12.1	Maintenance and Manning of Electrical system	Maintenance and Manning of Electrical system	100%	1.95
			Ţ	Total	100%	

Note:-

- 1. The value of each Milestone will be 12.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for E12.1, Value will be 0.1251 of Lump sum quoted price of Sch A * X * Y= 0.1251 x 1.0 x 0.0195 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'E12'.
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 4. Payment shall be made after completion of related work on monthly pro rata basis

7. Apportionment of Contract Price for Schedule 'A' under various Cost Centres for Sub-Head-Signalling Works:

Cost Centre	Description of Cost Centre	Percentag e of Cost Centre 'S'	Total Cost of Cost Centre	Total Cost of Sub-Head 'S'
(1)	(2)	(3)	(4)	(5)
S1	Design and Documentation for Signalling works	4%	S1=0.04x 'S'	
S2	Signalling Works at Manesar Jn.	26%	S2=0.26x 'S'	
S3	Signalling Works at New Patli Jn.	24%	S3=0.24x'S'	
S4	Signalling Works at Sultanpur station of IR	18%	S4=0.18x'S'	
S5	Modification in existing IR Patli Yard for commissioning of Signalling works of Phase-I	8%	S5=0.08x 'S'	8.51% of SCH
S6	Modification in existing IR Patli Yard for commissioning of Signalling works of Phase-II	6%	S6=0.06x'S'	'A'
S7	Supply of Contract Spares and Special Tools & Test Equipment for Signalling works	8%	S7=0.08x 'S'	
S8	Integrated Testing & Commissioning and Final Taking – Over of Signalling works	4%	S8=0.04x 'S'	
S9	Training for Signalling system	1%	S9=0.01x 'S'	
S10	Maintenance of Signalling system for 01 year	1%	S10=0.01x 'S'	
	Total	100%		

7.1 Stages of payment i.e. Milestone of Cost Centre 'S1'- Design And Documentation For

Signalling Works

	ing works	I	tem of work		XX/-2-14	Weightage
Cost Centre	Sub Cost Centre	No.	Description	Milestone	Weightag e (X)	of Cost Centre 'S' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		S1.1	Preliminary Designs & Documents including	Submission of Preliminary Designs & Documents	15%	
		S1.2	Detailed Designs & Documents	Submission of All Detailed Designs & Documents and Interface specification	45%	
S1[Design and Document ation for	and S1- Design and Document Documentation	S1.3	Construction/Inst allation Designs &Documents	Submission of Construction /Installation Designs & Documents	10%	4%
		S1.4	As-Built Drawings& Documents	Submission of As-Built Drawings & Documents	20%	
		S1.5	Operation & Maintenance Manuals, Station working roules, Documents for NI etc. for Signalling system	Submission of Operation & Maintenance Manuals, Station working rules, Documents for NI etc. for Signalling system	10%	
			I	Total	100%	

Note:

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X*Y. For example, for S1.1, Value will be 0.0851 of Lump sum quoted price of Sch A*X*Y=0.0851 x 0.15 x 0.04 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall NOT be applicable to the payments of Works executed under Cost Centre 'S1'.

3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.

7.2 Stages of payment i.e. Milestones of Cost Centre 'S2'- signalling works at Manesar Jn.

	Sub		Items of work		Weight	Weightage of Cost
Cost Centre	Cost Centre	No.	Description	Milestone	age (X)	Centre 'S' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		S2.1.1	Supply of cables	Supply of Signalling Cable, Power Cable and Quad Cable	22%	
S2		S2.1.2	Supply of EI system	Supply of EI hardware equipment along with associated software and accessories	16%	
[Signalli ng Works at Manesar	S2.1-	S2.1.3	Supply of Power supply system	Supply of power supply equipment and batteries along with associated accessories	2%	2604
Jn.]	Jn.] Supply of materi	S2.1.4	Supply of track vacancy detection system	Supply of Track Vacancy Detection Hardware equipment along with associated software and accessories	19%	26%
		S2.1.5	Supply of Signals, Point machines etc.	Supply of signals and point machines along with associated accessories	5%	
		S2.1.6	Supply of balance indoor equipment.	Supply of balance indoor equipment	9%	
		S2.1.7	Supply of balance outdoor equipment.	Supply of balance outdoor equipment	1%	
		S2.1.8	Supply of BPAC equipment.	Supply of BPAC equipment	7%	

	S2.2.1 S2.2.2	Laying of outdoor Signalling cables Installation of indoor Signalling equipment	& Testing of outdoor cables Installation of all	1%	
S2.2- Instal lation	S2.2.3	Installation of outdoor Signalling equipment	Installation of all outdoor equipment	4%	
	S.2.2.4	Installation of earthing and surge protection equipment for Signalling work.	Earthing and Surge	3%	
S2.3- Any other item	\$2.3.1	Any other item required for Signalling work.	Any other item required to be supplied, installed and tested for complete works	1%	
S2.4- Syste m Accep tance Test	S2.4.1	System acceptance test of Signalling system	Supply and installation of software and system acceptance test	6%	
			Total	100%	

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S2.1.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y=0.0851 x 0.22 x 0.26 of lumpsum quoted price of Schedule 'A'.
- 2. The boundary of Signalling Works at Crossing Station shall be from First Stop signal to Last Stop Signal including controlling track sections and distant signals in both directions.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S2'.
- 4. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre S2.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

7.3 Stages of payment i.e. Milestone of Cost Centre 'S3'- Signalling works at New Patli Jn.

		Ite	ems of work			Weight age of
Cost Centre	Sub Cost Centre	No.	Description	Milestone	Weightage (X)	Cost Centre 'S' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		S3.1.1	Supply of cables	Supply of Signalling Cable, Power Cable and Quad Cable	24%	
S3 [Signalli	S3.1.2	S3.1.2	Supply of EI system	Supply of EI hardware equipment along with associated software and accessories	17%	
			Supply of Power supply system	Supply of power supply equipment and batteries along with associated accessories	2%	
ng Works at New Patli Jn.]	S3.1.4 S3.1-Supply of material S3.1.5	Supply of track vacancy detection system		19%	24%	
		S3.1.5	Supply of Signals, Point machines etc.		5%	
		S3.1.6	Supply of balance indoor equipment.	Supply of balance indoor equipment	3%	
	S3.1.7 S o e S3.1.8 S	Supply of balance outdoor equipment.	Supply of balance outdoor equipment	2%		
		S3.1.8	Supply of BPAC equipment.	Supply of BPAC equipment	9%	
	S3.2- Installation	S3.2.1	Laying of outdoor Signalling cables	Laying, Termination & Testing of outdoor cables	5%	

			Total	100%
S3.4-System Acceptance Test	S3.4	System acceptance test of Signalling system	Supply and installation of software and system acceptance test	5%
S3.3-Any other item	S3.3	Any other item required for Signalling work.		1%
	S.3.2.4	Installation of earthing and surge protection equipment for	and Surge Protection equipment for complete	3%
	S3.2.3	Installation of outdoor Signalling equipment	Installation of all outdoor equipment	4%
	S3.2.2	Installation of indoor Signalling equipment	Installation of all indoor equipment	1%

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S3.1.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 0.24 x 0.24 of lumpsum quoted price of Schedule 'A'.
- 2. The boundary of Signalling Works at Crossing Station shall be from First Stop signal to Last Stop Signal including controlling track sections and distant signals in both directions.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S3'.
- 4. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre S3.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

7.4 Stages of payment i.e. Milestones of Cost Centre 'S4'- Signalling works at Sultanpur station of IR

		I	tems of work			Weighta ge of
Cost Centre	Sub Cost Centre	No.	Description	Milestone	Weighta ge (X)	Cost Centre 'S' (Y)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		S4.1.1	Supply of cables	Supply of Signalling Cable, Power Cable and Quad Cable	16%	
		S4.1.2	Supply of EI system	Supply of EI hardware equipment along with associated software and accessories	23%	
S4 [Signalli ng		S4.1.3	Supply of Power supply system	Supply of power supply equipment and batteries along with associated accessories	2%	
Works at Sultanp ur station	S4.1-Supply of material	S4.1.4	Supply of track vacancy detection system	Supply of Track Vacancy Detection Hardware equipment along with associated software and accessories	13%	18%
of IR]	S4.1.5	Supply of Signals, Point machines etc.	Supply of signals and point machines along with associated accessories	3%		
		S4.1.6	Supply of balance indoor equipment.	Supply of balance indoor equipment	4%	
		S4.1.7	Supply of balance outdoor equipment.	Supply of balance outdoor equipment	2%	
		S4.1.8	Supply of BPAC equipment.	Supply of BPAC equipment	16%	
	S4.2-	S4.2.1	Laying of outdoor Signalling cables	Laying, Termination & Testing of outdoor cables	5%	
	Installation	S4.2.2	Installation of indoor Signalling equipment	Installation of all indoor equipment	1%	

	S4.2.3	Installation of outdoor Signalling equipment	Installation of all outdoor equipment	4%	
	S4.2.4	Installation of earthing and surge protection equipment for Signalling work.	Installation of Earthing and Surge Protection equipment for complete works	4%	
S4.3-Any other item	S4.3.1	Any other item required for Signalling work.	Any other item required to be supplied, installed and tested for complete works	1%	
S4.4-System Acceptance Test	S4.4.1	System acceptance test of Signalling system	Supply and installation of software and system acceptance test	6%	
			Total	100%	

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S4.1.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 0.16 x 0.18 of lumpsum quoted price of Schedule 'A'.
- 2. The boundary of Signalling Works at Crossing Station shall be from First Stop signal to Last Stop Signal including controlling track sections and distant signals in both directions.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S4'.
- 4. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre S4.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

7.5 Stages of payment i.e. Milestone of Cost Centre 'S5'- Signalling works for Modification in existing IR Patli yard for commissioning Signalling work in Phase-I

	Sub Cost		Items of work	Weightage	Weightage of Cost
Cost Centre	Centre	No.	Milestone	(X)	Centre 'S' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
S5 [Signalling Works for Modification in existing IR Patli yard for commissioning of Signalling work in Phase-I]	S5-Supply of materials, installation , Testing & commissio ning	S5.1	Supply of Signalling Cable, Power Cable and Quad Cable, EI hardware equipment along with associated software and accessories, Power supply equipment and batteries along with associated accessories, Track Vacancy Detection Hardware equipment along with associated software and accessories, Signals and Point machines along with associated accessories, BPAC equipment, balance indoor equipment, balance outdoor equipment for Phase-I.	80%	8%
		S5.2	Laying, Termination & Testing of outdoor cables, Installation of all indoor equipment, Installation of all outdoor equipment, Installation of Earthing and Surge Protection equipment for complete works, Any other item required to be installed for complete works of Phase-I.	16%	
		S5.3	Supply and installation of software and system acceptance test for Phase-I.	4%	
			Total	100%	

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S5.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y = 0.0851 x 0.80 x 0.08 of lumpsum quoted price of Schedule 'A'.
- 2. The boundary of Signalling Works at Crossing Station shall be from First Stop signal to Last Stop Signal including controlling track sections and distant signals in both directions.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S5'.
- 4. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre S5.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

7.6 Stages of payement i.e. Milestone of Cost Centre 'S6'- Signalling works for Modification in existing IR Patli yard for commissioning Signalling work in Phase-II

G. A.G. A	Sub Cost		Items of work	Weightage	Weightage of Cost
Cost Centre	Centre	No.	Milestone	(X)	Centre 'S' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
(1) S6 [Signalling Works for Modification in existing IR Patli yard for commissioning Signalling work in Phase-II]	S6-Supply of materials, installation , Testing &	S6.1	Supply of Signalling Cable, Power Cable and Quad Cable, EI hardware equipment along with associated software and accessories, Power supply equipment and batteries along with associated accessories, Track Vacancy Detection Hardware equipment along with associated software and accessories, Signals and Point machines along with associated accessories, Block instruments, balance indoor equipment, balance outdoor equipment for Phase-II.	80%	6%
	commissio ning S6.2	Laying, Termination & Testing of outdoor cables, Installation of all indoor equipment, Installation of all outdoor equipment, Installation of Earthing and Surge Protection equipment for complete works, Any other item required to be installed for complete works of Phase-II. Supply and installation of	16%		
		S6.3	software and system acceptance test for Phase-II.	4%	
			Total	100%	

The value of each Milestone will be 8.51% of total Lumpsum cost of Works under 1. Schedule 'A' multiplied by X * Y. For example, for S6.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 0.80 x 0.06 of lumpsum quoted price of Schedule 'A'.

- 2. The boundary of Signalling Works at Crossing Station shall be from First Stop signal to Last Stop Signal including controlling track sections and distant signals in both directions.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S6'.
- 4. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre S6.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

7.7 Stages of payment i.e. Milestone of Cost Centre 'S7'- Supply of contract spares, special tools and test equipment for Signalling work

Cost	Sub Cost	t No. Milestone		Weightage	Weighta ge of Cost
Centre	Centre			(X)	Centre 'S7' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
S7 [Supply of Contract Spares, Special Tools and	S7.1- Supply of Contract Spares	S7.1	Supply of Contract Spares along with all other associated accessories for Signalling system	80	8%
Test equipmen t for Signalling system]	S7.2- Supply of Special Tools and Test equipment	S7.2	Supply of Special Tools & Test equipment for Signalling system	20	
			Total	100%	

Note:

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S7.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 0.80 x 0.08 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S7'.
- 3. Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against the Cost Centre S7 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

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7.8 Stages of payment i.e. Milestone of Cost Centre 'S8'- Integrated Testing & Commissioning and Final Taking-Over of Signalling work

Cost Contro	Sub Cost		Items of work	Weightag	Weightag e of Cost
Cost Centre	Centre	No.	Milestone	e (X)	Centre 'S8' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
S8 [Integrated Testing & Commissioning and Final Taking-Over of	Testing & Commissioning	S8.1 S8.2	Successful Completion of Integrated Testing & Commissioning for Signalling work of Phase 1. Successful Completion of Integrated Testing & Commissioning for Signalling work of Phase 2.	35%	4%
Signalling work]		\$8.3	Final Taking-Over Certificate for the complete Signalling work	50%	
			Total	100%	

Note:

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S8.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 0.15 x 0.04 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'S8'.
- 3. Payment will be made on completion of each Payment Stage as per weightage given in this Cost Centre.

7.9 Stages of payment i.e. Milestone of Cost Centre 'S9'- training for signalling system

Cost Centre	Sub Cost		ems of work	Weightage	Weightage of Cost Centre
Cost Centre	Centre		(X)	'S9' (Y)	
(1)	(2)	(3)	(4)	(5)	(6)
S9 [Training for Signalling system]	S9- Training	S9.1	Training	100%	1%
-			Total	100%	

Note:

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S9.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 1.0 x 0.01 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall NOT be applicable to the payments of Works executed under Cost Centre 'S9'
- 3. Payment will be made on completion of each Milestones as per weightage given in this Cost Centre.

7.10 Stages of payment i.e. Milestone of Cost Centre 'S10'- Maintenance of Signalling system for one year

Cost Centre	Sub Cost	Items of work		Weightage	Weightage of Cost Centre 'S'
Cost Centre	Centre	No.	Milestone	(X)	(Y)
(1)	(2)	(3)	(4)	(5)	(6)
S10 [Maintenance of Signalling system for one year]	S10- Maintena nce	S10.1	Maintenance for one year	100%	1%
	7	Total		100%	

Note:

- 1. The value of each Milestone will be 8.51% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for S10.1, Value will be 0.0851 of Lump sum quoted price of Sch A * X * Y= 0.0851 x 1.0 x 0.01 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall NOT be applicable to the payments of Works executed under Cost Centre 'S10'.
- 3. Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.

8.0 Apportionment of Contract Price for Schedule 'A' under various Cost Centres for Sub-Head-Telecommunication Works:

Cost Centre	Description of Cost Centre	Percentage of Cost Centre 'T' (%)	Total Cost of Cost Centre	Total Cost of 'T' Sub- Head
(1)	(2)	(3)	(4)	(5)
T1	Design and Documentation for Telecommunication works	5%	T1=0.05x'T'	
T2	Telecommunication works at New Patli Jn.	15%	T2=0.15x'T'	
Т3	Telecommunication works at existing IR station Sultanpur	11%	T3=0.11x'T'	
T4	Telecommunication works at existing IR station Patli (Phase-I)	2%	T4=0.02x'T'	
T5	Telecommunication works at existing IR station Patli (Phase-II)	2%	T5=0.02x'T'	
Т6	Telecommunication works at Manesar junction	34%	T6=0.34x'T'	
Т7	Telecommunication works in Mid -section between Manesr Jn. & New Patli Jn.	2%	T7=0.02x'T'	
Т8	Telecommunication works in mid -section between Manesar Jn. & IR station Patli (Phase-I).	4%	T8=0.04x'T'	2.25% of
Т9	Telecommunication works in mid -section between New Patli Jn. & IR station Patlii (Phase-II).	3%	T9=0.03x'T'	SCH 'A'
T10	Telecommunication works in mid -section between New Patli Jn. & IR station Sultanpur.	3%	T10=0.03x'T'	
T11	Integrated Testing and Commissioning and Final Taking-Over of Telecommunication works	5%	T11=0.05x'T'	
T12	Supply of Contract Spares for Telecommunication system	6%	T12=0.06x'T'	
T13	Supply of Special Tools & Test Equipment for Telecommunication system	4%	T13=0.04x'T'	
T14	Training for Telecommunication system	2%	T14=0.02x'T'	
T15	Maintenance of Telecommunication system for one year	2%	T15=0.02x'T'	
	Total	100%		

8.1 Stages of payment i.e. Milestone of Cost Centre 'T1'- Design And Documentation For Telecommunication Works

Cost Centre	Sub Cost			Sub Cost		Weightage	Weightage of Cost Centre
Cost Centre	Centre	No.	Milestone	(X)	'T1' (Y)		
(1)	(2)	(3)	(4)	(5)	(6)		
		T1.1	All Preliminary Design & documents	10			
T1 [DESIGN AND	T1- Design and Documents	T1.2	All Detailed Design Documents & Interface Specification for complete works	40			
DOCUME NTATION FOR		and	T1.3	All Good for construction/ Installation Design Documents for complete works	10	5%	
TELECOM MUNICAT			T1.4	O&M Manual for Completed Works	15	370	
ION WORKS]		T1.5	As-Built Drawings for Completed Works	20			
		T1.6	Balance documents required to be given as part of the Contract	5			
			Total	100%			

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T1.1, Value will be 0.0225 of Lumpsum quoted price of Sch $A * X * Y = 0.0225 \times 0.1 \times .05$ of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall NOT be applicable to the payments of Works executed under Cost Centre 'T1'
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre

8.2 Stages of payment i.e. Milestone of Cost Centre 'T2'- Telecommunication Works at New Patli Junction

Cost	Sub Cost		Items of work	Weightag	Weightage of Cost	
Centre	Centre	No.	Milestone	e (X)	Centre 'T2' (Y)	
(1)	(2)	(3)	(4)	(5)	(6)	
		T2.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	32		
		T2.1.2	Supply of OFC System Hardware along with associated software & accessories	35		
		T2.1.3	Supply of Power Supply System Hardware along with associated software & accessories	01		
	T2.1 Supply of material	T2.1.4	Supply of Telephone System Hardware along with associated software & accessories.	02		
T2 [Telecomm		T2.1.5	Supply of Master Clock System Hardware along with associated software & accessories	01		
unication works at New Patli		T2.1.6	Supply of VHF communication System Hardware along with associated software & accessories	01	15%	
Jn.]		T2.1.7	Supply of balance indoor and outdoor equipment	01		
	T2.2 Installation	T2.2.1	Installation of all indoor equipment	04		
		T2.2.2	Installation of all outdoor equipment	01		
		T2.2.3	Laying, Termination & Testing of Outdoor Telecom cables	18		
		T2.2.4	Installation of Earthing and Surge Protection equipment Supply and installation of	01		
	T2.3 System Acceptance Test	T2.3.1 Supply and installation software and System Acceptan Test		03		
	_	100%				

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T2.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.32 x 0.15 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'T2'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against the Cost Centre T2.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.3 Stages of payment i.e. Milestone of Cost Centre 'T3'- Telecommunication Works at existing IR station Sultanpur

Cont Control	Sub Cost	Items of work		Weightag	Weightage of Cost Centre		
Cost Centre	Centre	No.	Milestone	e (X)	'T3' (Y)		
(1)	(2)	(3)	(4)	(5)	(6)		
	T3.1- Supply of material T3 T3 T3 T3 T3 T3 T3	T3.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	35			
		T3.1.2	Supply of OFC System Hardware along with associated software & accessories	33			
		T3.1.3	Supply of Power Supply System Hardware along with associated software & accessories	02			
Т3		T3.1.4	Supply of Telephone System Hardware along with associated software & accessories.	01			
[Telecommunication Woks at existing IR station Sultanpur]				T3.1.5	Supply of Master Clock System Hardware along with associated software & accessories	01	11%
		T3.1.6	Supply of VHF communication System Hardware along with associated software & accessories	01			
		T3.1.7	Supply of balance indoor and outdoor equipment	01			
		T3.2.1	Installation of all indoor equipment	04			
		T3.2.2	Installation of all outdoor equipment	01			
		T3.2.3	Laying, Termination & Testing of Outdoor Telecom cables	16			

	T3.2.4	Installation of Earthing and Surge Protection equipment	01
T3.3- System Acceptance Test	T3.3.1	Supply and installation of software and System Acceptance Test	04
		Total	100%

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T3.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.35x 0.11 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Sub Cost Centre 'T3'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against the Cost Centre T3.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.4 Stages of payment i.e. Milestone of Cost Centre 'T4'- Telecommunication Works at existing IR station Patli (Phase-I)

			Items of work		Weightage	
Cost Centre	Sub Cost Centre	No.	Milestone	Weightage (X)	of Cost Centre 'T4' (Y)	
(1)	(2)	(3)	(4)	(5)	(6)	
		T4.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	17	2%	
		T4.1.2	Supply of OFC System Hardware along with associated software & accessories	30		
	T4.1-Supply of material T4	T4.1.3	Supply of Power Supply System Hardware along with associated software & accessories	03		
T4		T4.1.4	Supply of Telephone System Hardware along with associated software & accessories.	06		
[Telecommunication Woks at existing IR station Patli (Phase- I)]		T4.1.5	Supply of Master Clock System Hardware along with associated software & accessories	00		
		T4.1.6	Supply of VHF communication System Hardware along with associated software & accessories	01		
		T4.1.7	Supply of balance indoor and outdoor equipment	16		
	T4.2- Installation T4.2.2	T4.2.1	Installation of all indoor equipment	04	-	
		T4.2.2	Installation of all outdoor equipment	02		
		T4.2.3	Laying, Termination & Testing of Outdoor Telecom cables	14		

	T4.2.4	Installation of Earthing and Surge Protection equipment	03	
T4.3-System Acceptance Test	T4.3.1	Supply and installation of software and System Acceptance Test	04	
		Total	100%	

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T4.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.17 x 0.02 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'T4'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against the Cost Centre T4.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.5 Stages of payment i.e. Milestone of Cost Centre 'T5'- Telecommunication Works at existing IR station Patli (Phase-II)

			Items of work		Weightag e of Sub-	
Cost Centre	Sub Cost Centre	No.	Milestone	Weightage (X)	Cost Centre 'T5' (Y)	
(1)	(2)	(3)	(4)	(5)	(6)	
		T5.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	38		
		T5.1.2	Supply of OFC System Hardware along with associated software & accessories	45		
	T5.1.3 T5.1- Supply of material T5.1.4 T5.1.5 T5.1.6	T5.1.3	Supply of Power Supply System Hardware along with associated software & accessories	00		
T5		T5.1.4	Supply of Telephone System Hardware along with associated software & accessories.	01		
[Telecommu nication Woks at existing IR		T5.1.5	Supply of Master Clock System Hardware along with associated software & accessories	00	2%	
station Patli (Phase-II)]		Supply of VHF communication System Hardware along with associated software & accessories	01			
		T5.1.7	Supply of balance indoor and outdoor equipment	01		
	T5.2- Installati	T5.2.1	Installation of all indoor equipment	06		
		T5.2.2	Installation of all outdoor equipment	01		
		T5.2.3	Laying, Termination & Testing of Outdoor Telecom cables	02		
		T5.2.4	Installation of Earthing and Surge Protection equipment	00		

T5.3- System Acceptan ce Test	T5.3.1	Supply and installation of software and System Acceptance Test	05	
		Total	100%	

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T5.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.38 x 0.02 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'T5'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against the Cost Centre T5.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

Corrigendum No.3 Attachment 1

8.6 Stages of payment i.e. Milestone of Cost Centre 'T6'- Telecommunication Works at Manesar Jn.

]	Items of work	***	Weightag
Cost Centre	Sub Cost Centre	No.	Milestone	Weighta ge (X)	e of Cost Centre 'T6' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
		T6.1.1	Supply of OFC, 6- Quad, and PIJF Telephone Cables with associated accessories	16	
		T6.1.2	Supply of OFC System Hardware along with associated software & accessories	40	
	T6.1-Supply of material	T6.1.3	Supply of Power Supply System Hardware along with associated software & accessories	01	
T6 [Telecommunication Woks at Manesar Jn.]		T6.1.4	Supply of Telephone System Hardware along with associated software & accessories.	05	34%
		T6.1.5	Supply of Master Clock System Hardware along with associated software & accessories	01	
		T6.1.6	Supply of VHF communication System Hardware along with associated software & accessories	01	
		T6.1.7	Supply of balance indoor and outdoor equipment	14	
	T6.2- Installation	T6.2.1	Installation of all indoor equipment	08	

	T6.2.2	Installation of all outdoor equipment	01	
	T6.2.3	Laying, Termination & Testing of Outdoor Telecom cables	08	
	T6.2.4	Installation of Earthing and Surge Protection equipment	01	
T6.3- System Acceptance Test	T6.3.1	Supply and installation of software and System Acceptance Test	04	
		Total	100%	

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T6.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.16 x 0.34 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Cost Centre 'T6'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against the Cost Centre T6.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.7 Stages of payment i.e. Milestone of Cost Centre 'T7'- Telecommunication Works in midsection between Manesar Jn. & New Patli Jn.

Cost Centre	Sub Cost		Items of work	Weighta	Weightage of Cost
Cost Centre	Centre	No.	Milestone	ge (X)	Centre 'T7' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
		T7.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	45	
		T7.12	Supply of OFC System Hardware along with associated software & accessories	14	
		T7.13	Supply of Power Supply System Hardware along with associated software & accessories	01	
	T7.1 Supply of material	T7.14	Supply of Telephone System Hardware along with associated software & accessories.	03	2%
T7 [Telecommunication Woks in MID- SECTION between		T7.15	Supply of Master Clock System Hardware along with associated software & accessories	04	
Manesar Jn. & New Patli Jn.]		T7.1.6	Supply of VHF communication System Hardware along with associated software & accessories	00	
		T7.1.7	Supply of balance indoor and outdoor equipment	01	
		T7.2.1	Installation of all indoor equipment	03	
		T7.2.2	Installation of all outdoor equipment	06	
	T7.2 Installation	T7.2.3	Laying, Termination & Testing of Outdoor Telecom cables	22	
		T7.2.4	Installation of Earthing and Surge Protection equipment	00	

T7.3 System Acceptance Test	T7.3.1	Supply and installation of software and System Acceptance Test	01	
		Total	100%	

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T7.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.45 x 0.02 of lumpsum quoted price of Schedule 'A'.
- 2. Telecom Works in Block sections shall cover all Telecom Works between two adjacent Crossing Stations/ Junction Stations and shall also include Telecom Works at TSS, SP, SSP and other Buildings/Structures.
- 3. 'Adjustment to Contract Price shall be applicable to the payments of Works executed under Sub Cost Centre 'T7'.
- 4. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre T7.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.8 Stages of payment i.e. Milestone of Cost Centre 'T8'- Telecommunication Works in midsection between Manesar Jn. & IR station Patli (Phase-I)

]	Items of work		Weighta ge of			
Cost Centre	Sub Cost Centre	No.	Milestone	Weightage (X)	Cost Centre 'T8' (Y)			
(1)	(2)	(3)	(4)	(5)	(6)			
		T8.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	64				
		T8.12	Supply of OFC System Hardware along with associated software & accessories	01				
	T8.1 Supply of material	T8.1.3	Supply of Power Supply System Hardware along with associated software & accessories	01				
T8 [Telecommunication Woks in MID-		T8.1.4	Supply of Telephone System Hardware along with associated software & accessories.	01				
SECTION between Manesar Jn. & IR station Patli (Phase-					T8.1.5	Supply of Master Clock System Hardware along with associated software & accessories	01	4%
I)]		T8.1.6	Supply of VHF communication System Hardware along with associated software & accessories	00				
						T8.1.7	Supply of balance indoor and outdoor equipment	00
		T8.2.1	Installation of all indoor equipment	01				
	T8.2	T8.2.2	Installation of all outdoor equipment	01				
	Installation	T8.2.3	Laying, Termination & Testing of Outdoor Telecom cables	29				

	T8.2.4	Installation of Earthing and Surge Protection equipment	00	
T8.3 System Acceptance Test		Supply and installation of software and System Acceptance Test	01	
		Total	100%	

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T8.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.64 x 0.04 of lumpsum quoted price of Schedule 'A'.
- 2. Telecom Works in Block sections shall cover all Telecom Works between two adjacent Crossing Stations/ Junction Stations and shall also include Telecom Works at TSS, SP, SSP and other Buildings/Structures.
- 3. 'Adjustment to Contract Price shall be applicable to the payments of Works executed under Sub Cost Centre 'T8'.
- 4. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre T8.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.9 Stages of payment i.e. Milestone of Cost Centre 'T9'- Telecommunication Works in midsection between New Patli Jn. & IR station Patli (Phase-II)

Coat Contro	Sub Cost	Items of work		Weighta	Weightage of Cost			
Cost Centre	Centre	No.	Milestone	ge (X)	Centre 'T' (Y)			
(1)	(2)	(3)	(4)	(5)	(6)			
		T9.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	55				
		T9.12	Supply of OFC System Hardware along with associated software & accessories	00				
		T9.1.3	Supply of Power Supply System Hardware along with associated software & accessories	00				
T9	T9.1 Supply of material	T9.1.4	Supply of Telephone System Hardware along with associated software & accessories.	01				
[Telecommu nication Woks in		T9.1.5	Supply of Master Clock System Hardware along with associated software & accessories	00				
MID- SECTION between New Patli Jn. & IR					T9.1.6	Supply of VHF communication System Hardware along with associated software & accessories	00	3%
station Patli (Phase-II)]		T9.1.7	Supply of balance indoor and outdoor equipment	14				
		T9.2.1	Installation of all indoor equipment	00				
	T9.2	T9.2.2	Installation of all outdoor equipment	01				
	Installation	T9.2.3	Laying, Termination & Testing of Outdoor Telecom cables	28				
		T9.2.4	Installation of Earthing and Surge Protection equipment	00				
	T9.3 System Acceptance Test	T9.3.1	Supply and installation of					
			Total	100%				

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T9.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.55 x 0.03 of lumpsum quoted price of Schedule 'A'.
- 2. Telecom Works in Block sections shall cover all Telecom Works between two adjacent Crossing Stations/ Junction Stations and shall also include Telecom Works at TSS, SP, SSP and other Buildings/Structures.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Sub Cost Centre 'T9.
- 4. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre T9.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

Corrigendum No.3

Attachment 1

8.10 Stages of payment i.e. Milestone of Sub-Cost Centre 'T10'- Telecommunication Works in mid-section between New Patli Jn. & IR station Sultanpur

			Items of work		Weightage
Cost Centre	Sub Cost Centre	No.	Milestone	Weighta ge (X)	of Cost Centre 'T10' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
		T10.1.1	Supply of OFC, 6-Quad, and PIJF Telephone Cables with associated accessories	50	
		T10.1.2	Supply of OFC System Hardware along with associated software & accessories	00	
		T10.1.3	Supply of Power Supply System Hardware along with associated software & accessories	00	
T10 [Telecommu	T10.1 Supply of material	T10.1.4	Supply of Telephone System Hardware along with associated software & accessories.	01	
nication Woks in MID- SECTION		T10.1.5	Supply of Master Clock System Hardware along with associated software & accessories	00	3%
between Manesar Jn. & IR station Sultanpur]		T10.1.6	Supply of VHF communication System Hardware along with associated software & accessories	00	
		T10.1.7	Supply of balance indoor and outdoor equipment	17	
		T10.2.1	Installation of all indoor equipment	00	
	T10.2	T10.2.2	Installation of all outdoor equipment	03	
	T10.2 Installation	T10.2.3	Laying, Termination & Testing of Outdoor Telecom cables	27	
		T10.2.4	Installation of Earthing and Surge Protection equipment	01	

T10.3 System Acceptance Test	T10.3.1	Supply and installation of software and System Acceptance Test	01	
		Total	100%	

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T10.1.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.50 x 0.03 of lumpsum quoted price of Schedule 'A'.
- 2. Telecom Works in Block sections shall cover all Telecom Works between two adjacent Crossing Stations/ Junction Stations and shall also include Telecom Works at TSS, SP, SSP and other Buildings/Structures.
- 3. Adjustment to Contract Price shall be applicable to the payments of Works executed under Sub Cost Centre 'T10.
- 4. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 5. Payment against the Cost Centre T10.1 shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.11 Stages of payment i.e. Milestone of Cost Centre 'T11'- Integrated Testing & Commissioning and Final Taking-Over for Telecommunication works

Cost Centre	Sub Cost		Items of work	Weighta	Weightage of Sub-Cost
Cost Centre	Centre	No.	Milestone	ge (X)	Centre 'T11' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
T11 [Integrated Testing & Commission	Integrated Testing &	T11.1	Successful Completion of Integrated Testing & & Commissioning of Phase 1.	15%	
ing and Final Taking-	Commissi oning and Final	T11.2	Successful Completion of Integrated Testing & & Commissioning of Phase 2.	35%	5%
Over of Telecommu nication works]	Taking- Over	T11.3	Final Taking-Over Certificate for the complete work	50%	
			Total	100%	

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T11.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 0.15 x 0.05 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under Sub Cost Centre T11.
 - Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre

Corrigendum No.3

Attachment 1

8.12 Stages of payment i.e. Milestone of Cost Centre 'T12'- Supply of Contract spares for Telecommunication works

	Sub		Items of work		Weightage of Sub-
Cost Centre	Cost Centre	No.	Milestone	Weightage (X)	Cost Centre 'T12' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
T12 [Supply of Contract Spares for Telecommunication works]	Contract Spares	T12.1	Supply of Contract Spares along with all other associated accessories	100	6%
			Total	100%	

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T12.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 1.0 x 0.06 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under this Sub Cost Centre 'T12'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against this Cost Centre shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.13 Stages of payment i.e. Milestone of Cost Centre 'T13'- Supply of Special Tools & Test

Equipment for Telecommunication works

Cost Centre	Sub Cost		Items of work	Weighta	Weightage of Cost Centre
Cost Centre	No.	Milestone	ge (X)	'T13' (Y)	
(1)	(2)	(3)	(4)	(5)	(6)
T 13 [Supply of Special Tools & Test Equipment for Telecommunication works]	Special Tools and Test Equipment	T 13.1	Supply of Special Tools and Test Equipment along with other associated accessories, Operation and Maintenance Manual and Calibration Certificate	1000/	4%
			Total	100%	

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T13.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 1.0 x 0.04 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall be applicable to the payments of Works executed under this Sub Cost Centre 'T13'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.
- 4. Payment against this Cost Centre shall be made for quantities as per the Approved final Design, on receipt of Material at contractor's depot, production of inspection certificates & other documents and against BG of equivalent amount.

8.14 Stages of payment i.e. Milestone of Cost Centre 'T14'- Training for Telecommunication works

Cost Centre	Sub Cost]	tems of work	Weightage (X)	Weightage of Cost
	Centre	No.	Milestone		Centre 'T14' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
T14 [Training for Telecommunication system]	Training	T14.1	Training	100%	2%
			Total	100%	

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T14.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 1.0 x 0.02 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall NOT be applicable to the payments of Works executed under this Sub Cost Centre 'T14'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.

8.15 Stages of payment i.e. Milestone of Cost Centre 'T15'- Maintenance of Telecommunication gears for one year

Cost Centre	Sub Cost Centre	Items of work		Weightage	Weightage of Cost
		No.	Milestone	(X)	Centre 'T15' (Y)
(1)	(2)	(3)	(4)	(5)	(6)
T15 [Maintenance of Telecommunicat ion gears for one year]	Maintenan ce for one year	T15.1	Maintenance for One year	100%	2%
Total				100%	

Note:

- 1. The value of each Milestone will be 2.25% of total Lumpsum cost of Works under Schedule 'A' multiplied by X * Y. For example, for T15.1, Value will be 0.0225 of Lumpsum quoted price of Sch A * X * Y= 0.0225 x 1.0 x 0.02 of lumpsum quoted price of Schedule 'A'.
- 2. Adjustment to Contract Price shall NOT be applicable to the payments of Works executed under this Sub Cost Centre 'T15'.
- 3. Payment will be made on Completion of each Milestone as per weightage given in this Cost Centre.