

**Abstract**

Utility shifting in connection with widening of NH 66 passing through Karuvatta, Pallippad, Harippad, Cheppad, Kayamkulam West, Kayamkulam East and Krishnapuram Electrical Section Offices under Electrical Division, Harippad– Sanction accorded – Orders issued

CORPORATE OFFICE (SBU-D)**B.O.(FTD) No.357/2021 (D(D,IT&HRM)/D-2/Shifting/0003/ 2021-22 Dated, TVPM, 14.05.2021**

- Read: 1. Letter No. CE(DC)/AEE II/NHAI/21-22/297 dated 03.05.2021 of the Chief Engineer, Distribution (Central)
2. B.O(FTD) No. 744/2019 (KSEBL/TRAC/2019-20/S.Charge), Tvpm dated 10.10.2019
3. Note No. D(D,IT &HRM)/ D2/Shifting/0003/21-22 dated 06.05.2021 of the Director (Distribution, IT & HRM) to the Full Time Directors (Agenda No. 22/5/21)

ORDER

The National Authority of India (NHAI) requested for utility shifting along the side of the National Highway 66 passing through Karuvatta, Pallippad, Harippad, Cheppad, Kayamkulam West, Kayamkulam East and Krishnapuram Electrical Section Offices under the Electrical Division, Harippad. The total length of highway under this Division is 27.6 km.

The length of 11 kV lines to be shifted is 25.34 km along the high way and 4.375 km across the highway. There are 20.913 km of HT/LT lines and 10.2 km of multi HT/LT circuit in which 6.95 km is drawn using HT ABC. There are 77 numbers of transformers to be shifted to the side of the road.

Hence an estimate amounting to Rs.41,00,00,000/- (Rupees Forty One Crore Only) is prepared for the shifting of utilities under the above sections. The works involved in the estimate are drawing all HT over head lines using ACSR Raccoon conductor, drawing all LT over head lines along the road using ABC. As NHAI does not permit OH line crossings, the HT lines will cross the highway using 3x300 sqmm UG cable using Horizontal Directional Drilling (HDD) 200 mm bore (110 mm HDPE pipe). The length of HDD at each crossing will be 60 meters. 100 meters of 3x300 sqmm XLPE cables are to be laid at each crossing which include 10 meter loop on either sides. The UG cables will be mounted on DPs using A type poles. There will be 89 crossings. The total length of HDD is 5820 meter and the length of HT cable is 10500 meters. Considering the reliability of XLPE cables no spare cables are proposed. No LT crossing is proposed. But in order to feed the consumers, to whom LT OH crossing is

given now, 100 kVA transformers are proposed to be erected within a radius of 30 meter from the cable mounting DP or in the existing HT line or that are drawn afresh for feeding the consumers who are fed presently by LT OH lines.

The proposed estimate has 2 components.

1. Dismantling the existing utilities.

The total cost of dismantling is estimated as Rs. 1,02,70,048.72/- The cost of taken back materials is calculated Rs.7,20,28,562.07/- which is reduced from the total estimate The cost of materials taken back are arrived with scrap value prevailing under Electrical Circle, Harippad. The scrap value of 12 M and 13 M A- type poles are taken as 30% of their original price referring to the rates of 10 M and 11 M A-type poles as no previous rate are available. The transformers, CTPT units, Border meters and Fuse units are taken back as good.

3. Standardization of the network. - New Construction

In order to standardize and to get a face lift of the network along the highway this part of the estimate is prepared and named as new construction. The total cost for new construction is estimated as Rs.46,33,74,852.43/-. In this case, the HT/LT lines will be drawn using 14 meter A-type poles with double circuit HT lines, LT ABC and one K-FONE cable. LT lines along service roads will be drawn using 9 meter PSC poles with single circuit LT and one K- FONE Cable. This is for improving the vertical clearance of lines. There will be 1872 numbers of 14 meter GI A-type poles and 1194 numbers of 9 meter PSC poles for this purpose. All poles and cross arms are provided with sufficient number of earthing using pipes or coils. There are HT ABC lines. It is proposed to draw LT lines using ABC.

The supervision charges is calculated as 2.5 % of labour cost and in some cases it is taken as 10% labour cost. But as per the Board order read as 2nd above , for NHAI works, supervision charges is to be taken as 2.5% of the total approved estimate cost of the project.

The matter was placed before the Full Time Directors as per the note read as 3rd above.

Having considered the matter in detail, the Full Time Directors in the meeting held on 07.05.2021, resolved to accord sanction to the Chief Engineer (Distribution Central), for granting Administrative Sanction after detailed scrutiny and rectifying the defects of the estimate for the Deposit work in connection with widening of NH 66 passing through Karuvatta, Pallippad, Harippad, Cheppad, Kayamkulam West, Kayamkulam East and Krishnapuram Electrical Section Offices under Electrical Division, Harippad.

Further resolved to direct the Chief Engineer (Distribution Central) to adjust the amount remitted by NHAI for the utility shifting based on actuals after the completion of work, after taking into account the value of taken back materials.

Orders are issued accordingly.

By Order of Full Time Directors,
Sd/-
Lekha G.
Company Secretary (In charge)

To

The Chief Engineer (Distribution Central) , Ernakulam

Copy to:

The Chief Engineer (IT&CR)

The Financial Adviser/The Chief Internal Auditor/Company Secretary

The Deputy Chief Engineer, Electrical Circle, Harippad

The RCAO/The RAO/The LLO

The TA to Chairman & Managing Director/The TA to Director (Distribution, IT & HRM / Transmission, System Operation/ Generation-Electrical & Supply Chain Management / Generation-Civil/Planning & safety)

The PA to Director (Finance)/ Senior CA to Secretary (Administration)

The Fair Copy Superintendent/Library/Stock File

Forwarded/By Order



Assistant Executive Engineer