

Supply and fitting of 4 Bar Shrouded Copper conductors with PVC sleeves RYBG for EOT 228 in Golden Jubilee Block.

1) REQUIREMENT:-

4 Bar 500A Copper Shrouded conductors with PVC sleeves are required to be supplied and fitted on to the gantry as per the details given below.

S No	Description of Items	Qty.
1	Supply & Installation of 4 Bar 500 A Copper Shrouded conductors for EOT 228 with PVC sleeves in Golden Jubilee Block .	50 m

2) DESCRIPTION OF WORK:

4 Bar 500A Copper Shrouded conductors with PVC sleeves are required to be supplied and fitted on to the gantry of EOT crane having length of the bay as prescribed above. It is requested to supply complete DSL with requisite hardware items, insulators, MS- Brackets, & thereafter install them onto the Steel Gantry.

3) MAKE OF SHROUDED CONDUCTORS:

It is extension of existing shrouded copper DSL system. Existing DSL is of make Safetrack by M/s Susheel Engineers, Mumbai (160 Mtr) & further extended by M/s Anand Systems, Mumbai (36 Mtrs). The required DSL is for further extension of the bay from the side of by M/s Anand Systems DSL make. The party should visit the site & check the size of already existing DSL before quoting. The quoted DSL system should match properly with the existing DSL for extension & smooth operation of existing cranes in the whole bay. However the material of all the conductors i.e. R, Y, B, G shall be copper of same size.

Contractor may visit the site before quoting in the tender enquiry for actual assessment.

4) SPECIFICATION

Sn	Description	Acceptable value
1	Capacity at 100% CDF	500 A
2	Material	Copper (99.9% purity as per IS 1897 ETP grade.)
3	Protection class (Finger safe)	IP 21
4	Application	Indoor
5	Insulation material	PVC
6	Flame test	Self-Extinguishing
7	Insulation Cover	RYBG
8	Maximum System Voltage	500V AC /600 V DC
9	High Voltage withstand for 1 min Flash over test	2.5 KV / 7.5 KV

5) TEST CERTIFICATE: Test certificate including material test certificate for above specification at S. No. 4 shall be provided at the time of supply issued by OEM only.

6) SCOPE OF SUPPLY:

The tentative estimation of the material required for fitting of shrouded DSL mentioned at S. No. 1 above, as per our assessment is given below. However any material not mentioned below but required for successful completion of the installation shall also be included.

S No.	Description of Item	Details		Unit
i)	Supply and fitting of 4 Bar 500 A Copper Shrouded conductors for EO1-228 with PVC sleeves in Golden Jubilee Block with complete fitment accessories	CONDUCTOR BAR SYSTEM COPPER 500A 4 BAR (R,Y,B,G.) Bar Insulated Copper Conductor System with Joint, Joint Cover, Hanger clamps, Anchor Clamps, Centre Power Feed, End Covers with all accessories etc.	50	meter
		M.S. Web Bracket (required at every 2.25 meter interval)	25	nos.

7) SCOPE OF WORK:

The supplied material is to be erected and commissioned on the steel gantry girder. The tentative work estimation as per our assessment is given below. However any work not mentioned below but required for successful completion of the installation shall also be included.

- Mounting of DSL line on the Steel gantry Girder in Golden Jubilee Block.
- The DSL support brackets shall be fabricated according to the scope of supply. Insulators to be used shall be of high quality having minimum insulation level of 1.1KV. The distance between the brackets shall be maintained to approximately 2m. The MS angle fabricated support should be adequately strengthened to carry load & jerks caused by crane.
- The DSL has to be properly aligned on the columns for proper movement of current collector on the DSL line.
- Contractor may visit the site before quoting in the tender enquiry for actual assessment.

8) COMPLETION TIME:

The work shall be executed broadly in the time frame as mentioned below. The parties have to examine and give their concurrence. Any major variation shall be mentioned clearly in the offer:

- After award of purchase order the complete material shall be supplied within 8 weeks.
- Installation & commissioning of the DSL shall be completed within 2 weeks after the release of site by production shop.

9) FACILITIES TO BE PROVIDED BY BHEL:

Minor welding facility at ground level, Gas Cutting sets, Material handling etc shall be provided by BHEL Bhopal free of Cost to the extent of their availability.

10) Quality Assurance Plan:

- Material of all the 4 bars shall be Copper.
- All the 4 bars shall be of same dimension.
- The supplied DSL shall match with the existing erected 500 Amp DSL in Golden Jubilee Block high bay.
- The quantity of each bar shall be 50 Mtr.
- Vendor to submit Test certificate including material test certificate for specification at S. No. 4 at the time of supply issued by OEM only.

11) Pre-qualification requirement :

The vendor must have supplied & installed the Copper shrouded DSL system of same or higher ratings within 5 years from the date of tender opening. Vendor to submit P.O. copy along with performance certificate from the end user.