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**(WORKS ENGG. & SERVICES DEPTT.)**

Specification .No: WEX/Bay 9 DSL/15-16/01

Dated: 07.09.15

Reference : PI No. 637550151 dtd 07.09.15)

Supply, installation and commissioning of Shrouded base type Down Shop Lead (DSL) supply system for power supply to EOT cranes. Details are as below:

**Technical Specifications:**

- Type : Down Shop Lead (DSL)
- Current carrying capacity : Not less than 500 Amp.
- DSL mounting : Horizontally
- Supply system : AC 415 V 3 ph. 4 wire 50HZ
- Quantity : 300 Meter
- Conductor Material : Aluminum with RYBG PVC sleeves

**1.0 Details of Specification:**

The system should complete with:

**1.1 CONDUCTOR:**

Shrouded base type Heavy Duty conductor having capacity not less than 500 Amp.

**1.2 HANGER BRACKET /SUPPORT BRACKET**

Side support bracket shall be provided for the mounting of hanger clamp. The material shall be MS of suitable cross section. The distance between two bracket supports shall not be more than 1 Meter.

**1.3 HANGER CLAMPS**

Suitable hanger clamps shall be provided for the conductor.

**1.4 CONDUCTOR JOINT ASSEMBLY**

Suitable joint assembly shall be provided for the jointing of conductor. The joint assembly shall be supplied complete with joint cover.

**1.5 SUPPLY FEED ASSEMBLY**

2 Set Central power feed assembly of suitable rating shall be provided in each DSL to feed the supply complete in all respect.

**1.6 CURRENT COLLECTOR**

5 Nos. 250 Amp. Rating current collector set with 1 meter cable (one set of 4 Nos.) shall be provided to feed the supply to EOT crane.

**2.0 SCOPE OF WORK**

Installation (fixing/connecting) and commissioning of 500 Amp 04 pole Aluminum DSL complete in all respect including as below:

- (i) Welding / Fixing of fabricated M S support from angle 40x40x5 mm size duly painted with 04 slot of 10x18 mm size duly red oxide primiered. Standard length 450 mm long center distance between slots /conductor 50 mm required at every one meter on straight run.

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- (ii) Fixing connecting 04 bars of aluminum shrouded conductor with RYBG PVC sleeves including 04 pole hanger clamp, Joint-cover, Joint with suitably bolted joints.
- (iii) Fixing connecting of 02 no's center power feed Kits (Location as identified by maint. In charge)
- (iv) Fixing connection of end caps.
- (v) Fixing connecting of 05 no's current collectors (location as identified by maint. In charge).

### 3.0 SCOPE OF SUPPLY

- Following items to be supplied to complete the work including:
- (i) Aluminum shrouded conductor suitable for 500 Amp current load and 300 Mtr. length. - 04 bar
  - (ii) 250 Amp current collectors including mounting and fixing arrangement in all respect. -- 05 no's
  - (iii) Supply feed assembly completed in all respect.-- 02 no's
  - (iv) All consumables and hardware to complete the work in line of specifications and scope of work.

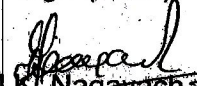
### 4.0 QUALIFYING CONDITION

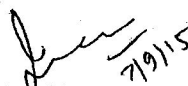
- (i) Party should have experience of minimum 03 no's successful Supply , installation and commissioning of Shrouded base type Down shop lead (DSL) supply system in last 07 years.
- (ii) Documentary proof of PO and its successful installation and commissioning certificates from customer is required.
- (iii) Party should visit to our works to understand scope of work and supply before Submitting their offer.

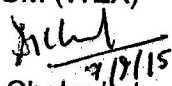
### 5.0 GENERAL CONDITIONS

- (a) Installation, Erection and commissioning of DSL to be done by the party in BHEL, Jhansi.
- (b) Offer must be submitted with price breakup details :
  - i) Scope of supply complete with quantity
  - ii) Scope of work.
  - iii) Time required for supply, erection and commissioning of total work.
- (c) Scope of work including manpower & tools and tackles for erection and commissioning of all supplied items.
- (d) Trial test of DSL on full load to be done after completion of work.
- (e) All supplied items to be fitted properly in view of totality of scope.
- (f) Guarantee of the work including supplied material shall be 12 month from the completion of work.

  
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