ADDENDUM - 2


Ref.: NIT No. DLI/C&E/WI-665/537 Dated 01.11.2018

SLD of VVVF Drive along with mode of operation drawing has been added for reference.

All other terms and conditions of the tender remain unchanged.

EXECUTIVE DIRECTOR
(Consultancy & Engineering Division)
1. THIS DRAWING IS TENTATIVE & FINAL DRAWING IS SUBJECT TO MECON/BSP APPROVAL.
2. SOME CHANGES MAY OCCUR DURING DETAIL ENGINEERING DRAWING, BIDDER ARE REQUESTED TO STUDY SCOPE OF WORK (VOL-2B) FOR ALL DETAILS.
3. POTENTIAL FREE CONTRACT (DI) TO BE CONSIDERED FOR FEEDBACK TO PLC AS FOLLOWING:
   (1.) MOTOR ON
   (2.) MOTOR OFF
   (3.) MOTOR TRIP
   (4.) L/L/R SELECTION
   (5.) VFD BYPASS DOL SELECTION
   (6.) EMERGENCY LCS/PANEL
   FOLLOWING DO TO BE CONSIDERED
   (1.) START FROM PLC
   (2.) STOP FROM PLC
   (3.) SPEED INC. FROM PLC
   (4.) SPEED DEC. FROM PLC
   4. APPROX LENGTH FROM VFD PANEL TO MOTOR IS 500 M
5. SHALL BE DESIGNED FOR VFD (8KW) SUITABLE RATING SUCH NOT EVEN AFTER DERATING (50°C AMBIENT TEMP) IT SHALL BE ABLE TO RUN THE MOTOR (8KW).
6. BUSBAR FAULT RATING SHALL BE AS PER GTS.
AS PER ANNEXURE-I OF TRANS. NO.- 2231 DATED 18.09.2018:
a) TYPE OF FEEDER - MECHANICAL
b) SIZE - 1400 WIDE x 2500 LONG
c) STROKE - 8-9 mm
   AMPLITUDE - 4.5mm
d) DUTY - CONTINUOUS
e) MOUNTING - EQUIPMENT MOUNTED
   WITH FRONT SUSPENSION
   SLING AND REAR SUSPENDED
   STRUCTURE
f) LIMITER GATE - N/A (AS RPG IS USED)
g) MOTOR DETAILS:
   (i) FULL LOAD CURRENT - 8 AMPS.
   (ii) POWER FACTOR - 0.75
   (iii) EFFICIENCY - 97%
   (iv) ELECTRIC SUPPLY - 415V AC, +10% -15%, 50 Hz+/-6%
   (v) RPM - 1000
   (vi) RATED CURRENT - 2x8 AMP. = 16 AMPS
   (vii) STARTING CURRENT - 55 AMPS
   (viii) STARTING TORQUE - 280% OF FULL LOAD TORQUE
   (ix) PASE/ CONNECTION - 3/STAR
Mode of Operation FOR VFD Drive for Vibro Feeder- 2 x 4 KW

⇒ There are two unbalanced type motors each rated 4KW are to be run & stop simultaneously.
⇒ Direction of rotation of motors is opposite to each other.
⇒ Motors are to be started either in VFD mode or in Bypass DOL mode.

VFD Mode

⇒ S/S to be set in VFD mode.
⇒ Motor shall get start or stop command in L/LI/R mode.
⇒ After getting START command (either from LCS/VFD Panel or LI or Through PLC), the power contactor C1, C2 & C3 shall be closed simultaneously.
⇒ On getting STOP command or in case of trip C1, C2, C3 shall be opened simultaneously.
⇒ Contactor C4 & C5 shall be in open in this mode.

Bypass Mode

⇒ S/S to be set in bypass DOL mode.
⇒ Motor shall get start or stop command in L/LI/R mode.
⇒ After getting START command (either from LCS/VFD Panel or LI or Through PLC) contactor C4 & C5 shall be closed simultaneously.
⇒ On getting STOP command or in case of trip of any motor, C4 & C5 shall be opened simultaneously.
⇒ Contactor C1, C2, C3 shall be always open in this mode.