



## **OIL INDIA LIMITED**

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### **CORRIGENDUM**

Ref: HM/IP/RB/DID1538L20/04

Dated: 09.07.2019

**Sub: Amendment No. 4 dated 09.07.2019 to Annexure-IA of Tender No. DID1538L20/L3**

Dear Sirs,

This **Amendment No. 4** to the Annexure-IA of the subject Tender has been issued to **amend** the following specifications of **item no. 10** as under in place of existing:

Sl. No.	Existing clause ( with clause no./page number)	Amended Clause
1	Annexure-I page- 4 of 7 If felt necessary bidder may include further items in the above spare list	Annexure-I page- 4 of 7 <del>If felt necessary bidder may include further items in the above spare list.</del>
2	Annexure-I page- 4 of 7 <u>Cost of the spares shall be included with the main item(panel), However the prices of the individual spares shall beshown separately. In the event of an order, final list of the spares to be supplied shall be approved by OIL , after drawing approval.</u>	Annexure-I page- 4 of 7 <u>Cost of the spares shall be included with the main item(panel), However the prices of the individual spares shall be shown separately. In the event of an order, final list of the spares to be supplied shall be approved by OIL, after drawing approval.</u>
3	Annexure-IA page- 2 of 14, Incomers: There will be 2 (two) incomers, with 690V (Ue), 800V (Ui), 50 kA Icu (ICu=Ics) or above breaking capacity rated three pole withdrawable type air circuit breaker or plug-in type moulded case circuit breaker, electronic/ microprocessor	Annexure-IA page- 2 of 14, Incomers: There will be 2 (two) incomers, with 690V (Ue), 800V (Ui), 50 kA Icu (ICu=Ics) or above breaking capacity rated three pole withdrawable type air circuit breaker or plug-in type moulded case circuit breaker, electronic/ microprocessor controlled with LSIG protection with adjustable settings



controlled with LSIg protection with adjustable settings [long delay (0.4-1.0 In)/short delay (1.5-10 long delay setting)/Instantaneous (1- 10 x In & OFF)/ground fault (0.1-1.0 In) with individual time settings] with separate earth leakage module. Incomer minimum rating will be 630 A. Incomers above 630 A will be air circuit breaker, rated 1000 A. Earth leakage module shall have range of 0.03-3.0 Amps and 0- 3 seconds, both current and time in adjustable steps. The earth leakage protective device may either be in-built earth leakage trip module (in case of ACB and larger MCCBs), a CBCT + EL module combination (for MCCBs) or a separate, but MCCB mountable EL module. The ACBs/MCCBs shall conform to IEC 60947/IS 13947-2, tropicalized to Class-II (high humidity). Make: Schneider/Legrand/Siemens/L&T/ABB.

Ratings of the incomer panel ACBs/MCCBs are as given in the Annexure-I Panel Feeder Lists.

All incoming and outgoing terminals of ACBs/MCCBs shall be fitted with bus links or spreader links supplied by ACB/MCCB manufacturer or brought out phase links of copper in rectangular sections with holes. Zinc passivated nut bolts with flat and spring washers for connection shall be provided for cable termination (2 or 3nos. of 3.5x240 sq mm LT PVCA copper cable for incoming supply for each incomer, depending on incomer current rating). The links shall be supported on non-hygroscopic insulating bars of FRP/DMC based

[long delay (0.4-1.0 In)/short delay (1.5-10 long delay setting)/Instantaneous (1- 10 x In & OFF)/ground fault (0.1-1.0 In) with individual time settings] with separate earth leakage module. Incomer minimum rating will be 630 A. ~~Incomers above 630 A will be air circuit breaker, rated 1000 A.~~ Earth leakage module shall have range of 0.03-3.0 Amps and 0- 3 seconds, both current and time in adjustable steps. The earth leakage protective device may either be in-built earth leakage trip module ~~(in case of ACB and larger MCCBs)~~, a CBCT + EL module combination ~~(for MCCBs)~~ or a separate, but MCCB mountable EL module. The ACBs/MCCBs shall conform to IEC 60947/IS 13947-2, tropicalized to Class-II (high humidity). Make: Schneider/Legrand/Siemens/L&T/ABB. Ratings of the incomer panel ACBs/MCCBs are as given in the Annexure-I Panel Feeder Lists.

All incoming and outgoing terminals of ACBs/MCCBs shall be fitted with bus links or spreader links supplied by ACB/MCCB manufacturer or brought out phase links of copper in rectangular sections with holes. Zinc passivated nut bolts with flat and spring washers for connection shall be provided for cable termination (2 or 3nos. of 3.5x240 sq mm LT PVCA copper cable for incoming supply for each incomer, depending on incomer current rating). The links shall be supported on non-hygroscopic insulating bars of FRP/DMC based materials and shall be of suitable size for cable termination.



	materials and shall be of suitable size for cable termination.	
4	<p><b>Annexure-IA page- 4 of 14</b></p> <p>2) Panel components: Various starters and feeders shall be housed in individual cubicles. Components shall be mounted on sheet steel base and all apparatus shall be suitable for front removal. All starters/feeders shall have suitably rated MCCBs as incomers. For feeder/starters above and including 20 HP, MCCB incomer connection to bus bars shall be through suitably rated copper bus links/spreader bars only. This is to avoid mechanical stresses that may develop during short circuit condition.</p> <p>Motor starters above and including 15 HP shall be star-delta starters (except soft starters). Starters below 15 HP shall be DOL starting. Earth leakage module shall have range of 0.03-3.0 Amps and 0- 3 seconds, both current and time in adjustable steps. The earth leakage protective device may either be in-built earth leakage trip module (in case of ACB and larger MCCBs), a CBCT + EL module combination (for MCCBs) or a separate, but MCCB mountable EL module.</p>	<p><b>Annexure-IA page- 4 of 14</b></p> <p>2) Panel components: Various starters and feeders shall be housed in individual cubicles. Components shall be mounted on sheet steel base and all apparatus shall be suitable for front removal. All starters/feeders shall have suitably rated MCCBs as incomers. For feeder/starters above and including 20 HP, MCCB incomer connection to bus bars shall be through suitably rated copper bus links/spreader bars only. This is to avoid mechanical stresses that may develop during short circuit condition.</p> <p>Motor starters above and including 15 HP shall be star-delta starters (except soft starters). Starters below 15 HP shall be DOL starting. Earth leakage module shall have range of 0.03-3.0 Amps and 0- 3 seconds, both current and time in adjustable steps. The earth leakage protective device may either be in-built earth leakage trip module (in case of ACB and larger MCCBs), a CBCT + EL module combination (for MCCBs) or a separate, but MCCB mountable EL module.</p>
5	<p><b>Annexure-IA page- 5 of 14</b></p> <p>Main panel incomer ACB with minimum LSIg Protection (1000 A) (where ACB as incomer is mentioned) EDO type, fault level 50 kA or above at 500 VAC. Electrically and manually operated with O/c, S/c, instantaneous and earth fault protection. Spring charging shall be motorized with</p>	<p><b>Annexure-IA page- 5 of 14</b></p> <p><del>Main panel incomer ACB with minimum LSIg Protection (1000 A) (where ACB as incomer is mentioned) EDO type, fault level 50 kA or above at 500 VAC. Electrically and manually operated with O/c, S/c, instantaneous and earth fault protection. Spring charging shall be motorized with</del></p>
6	<p><b>Annexure-IA page- 6 of 14</b></p> <p>230 Vac as well as manual.</p>	<p><b>Annexure-IA page- 6 of 14</b></p> <p>230 Vac as well as manual. Make:</p>



	<p>Make: Schneider Masterpact NW series with Micrologic 6.0A or better /Siemens WL series with ETU GT-N/GT-H/ABB- EMax series with ETU PR 121/122 / Legrand-DMX3-N with ETU cat no. 028802 MP4 LSIg or MP6LSIg</p> <p>Main panel incomer MCCB with minimum LSIg Protection (say for 630 A range)</p> <p>(where MCCB as incomer is mentioned) Schneider Electric (Compact NSX with Micrologic 6.0 and above)/ Legrand (Model DPX/DPX3 range with electronic LSIg release-Sg type)/ Siemens (Sentron VL with ETU 45 LSIg) /ABB (Tmax T6 with PR 222)</p>	<p><del>Schneider Masterpact NW series with Micrologic 6.0A or better /Siemens WL series with ETU GT-N/GT-H/ABB- EMax series with ETU PR 121/122 / Legrand- DMX3-N with ETU cat no. 028802 MP4 LSIg or MP6LSIg</del></p> <p>Main panel incomer MCCB with minimum LSIg Protection (say for 630 A range)</p> <p><del>(where MCCB as incomer is mentioned)</del> Schneider Electric (Compact NSX with Micrologic 6.0 and above)/ Legrand (Model DPX/DPX3 range with electronic LSIg release-Sg type)/ Siemens (Sentron VL with ETU 45 LSIg) /ABB (Tmax T6 with PR 222)</p>
7	<p><b>Annexure-IA page- 6 of 14</b></p> <p>Intrinsic safety barrier for the remote control system Omega/R-Stahl/ MTL/ Pepperl+Fuchs</p>	<p><b>Annexure-IA page- 6 of 14</b></p> <p><del>Intrinsic safety barrier for the remote control system Omega/R-Stahl/ MTL/ Pepperl+Fuchs</del></p>
8	<p><b>Annexure-IA page- 7 of 14</b></p> <p>i) All ACBs &amp; MCCBs shall have provision for padlocking and shall be provided with suitable locks with two keys for each lock.</p>	<p><b>Annexure-IA page- 7 of 14</b></p> <p>i) All ACBs &amp; MCCBs shall have provision for padlocking and shall be provided with suitable locks with two keys for each lock.</p>
9	<p><b>Annexure-IA page-10 of 14</b></p> <p>(iv) Technical Catalogues/manuals of Air circuit breakers, Moulded Case Circuit Breakers, soft starter units, starter components and Digital Meters.</p>	<p><b>Annexure-IA page-10 of 14</b></p> <p>(iv) Technical Catalogues/manuals of <del>Air circuit breakers</del>, Moulded Case Circuit Breakers, soft starter units, starter components and Digital Meters.</p>
10	<p><b>Annexure-IA page-11 of 14</b></p> <p><b>F. Spare.</b></p> <p>If felt necessary, bidder may include further items in the above spares list and quote the prices for these accordingly.</p> <p>Cost of the spares shall be included with the main item(Panel). However prices of individual spares shall be</p>	<p><b>Annexure-IA page-11 of 14</b></p> <p><b>F. Spare</b></p> <p><del>If felt necessary, bidder may include further items in the above spares list and quote the prices for these accordingly.</del></p> <p>Cost of the spares shall be included with the main item(Panel). However prices of individual spares shall be shown separately. Final list of <del>spares to be supplied shall be</del></p>

	shown separately. Final list of spares to be supplied shall be approved by OIL, after drawing approval.	<del>approved by OIL, after drawing approval.</del>
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**Clarification:**

1. Also please note that the Bid Closing Date has been extended upto 25.07.2019 you are requested to submit your offer within the revised bid closing date & time.

**Bidders are requested to note all amendments & original NIT while quoting.**

All other terms and conditions of the Tender remain unchanged.

Yours faithfully,  
OIL INDIA LIMITED,



**(RANJAN BARMAN)**  
**DGM (IP)**  
**For GM-Materials (HOD)**