

		<u>Bill of material</u>		Annexure -[A] of PY56562	
		<u>LDO/HFO PLC System</u>		Rev 00	
		Project: Nalco Damanjodi 18.5 MW STG + 300 TPG Boiler Project			
S. No	Item Description		Quantity	Units	Remarks
[A]	LDO/HFO PLC - Supply, Design, Engg, Testing & Training - [MAIN SUPPLY] BOM for Material Code - PY9756562013				
1	PLC Pkg		1	Set	
2	1 No 24" TFT-LCD ES/OWS (All in 1 Desktop) with a A4 size colour Laser jet printer and operator consoles with all sets of licensed Softwares + Furniture & chairs as required for work station & printer as per PY56562 and its annexures		1	Set	
3	1 No Laptop [EWS] with all sets of licensed Softwares + Furniture & chairs as required for work station as per PY56562 and its annexures		1	Set	
4	Armoured Fibre Optic cable with 2" rodent proof HDPE conduits (for purchaser's use - connecting cable between LDO/HFO PLC and DCS)		1	Set	
5	Armoured cable for Time synchronisation of LDO/HFO PLC with master clock		1	Set	
6	All other cables (signal, control, power & other special cables like pre-fab cables, etc.) required between bidder supplied equipments		1	Set	
7	Termination accessories like cable glands, lugs, etc for all incoming / outgoing cables of bidder supplied panels / Systems / items		1	Set	
8	Erection / Commissioning material required for completeness of above system		1	Lot	Note-(1)
9	Any Special tools & tackles (as required)		1	Set	
10	Consumables as per PY56562		1	Set	Note-(2)
11	FAT (BHEL+M. N. DASTUR +NALCO)		1	Set	
12	Documentation (Engg + As-ship+Erection & commission docs + As-Built+O&M manuals+test certificates+Catalogues+etc)		1	Set	
13	PLC - TRAINING: System Hardware & Software Maintenance, Plant Operation training as per Annexure-[E] of PY56562 - 15 Persons for 2 days (2 to 3 Batches).		1	Set	
[B]	PLC Pkg for LDO/HFO Pump House - [Vendor Services]				
1	PY9756562021	Supervision of Erection & Commissioning Services charges at site including lodging, boarding, local travel, insurance, etc. [Unit Rate = Per man day charges]	20	Days	
2	PY9756562030	Supervision of Erection & Commissioning visit charges [i.e. travel expenses like travel to & fro from vendors work to site, clearance charges like visa fee, etc.] [Unit rate = per visit travel expenses]	3	Visits	

NOTES ::

- List and Quantities shall be reviewed during detail engineering.
- Consumables used for commissioning shall be considered part of commissioning spares and shall be supplied by package vendor.