Single Arm Mobile Welding Fume Extraction System		Quantity- 12 sets
Scope of work: supply,installation and commissioning of Single Arm Mobile Welding Fume Extraction System		
S.NO	**SPECIFICATIONS**	**REQUIRED**
Power & Utility		
A	**Power requirement**	
1	Main Voltage	**3 Phase / 415 Volts / 50 Hz**
2	**Insulation Class**	**IP42 or Higher**
Techanical Specifications of Fume Extraction Unit		
1	Fan Type	CENTRIFUGAL FAN
2	Motor	2 HP,3 Phase / 415 Volts / 50 Hz,(Make-CG/ ABB/ Siemens/Kirloskar/ Bharat Bijli) Protection class- IP55 or better, Continous running at rated load
3	Min Fan Output	2000(m3 / hr)
4	Intake Diameter (mm)	minimum 150 MM
5	Arm Balacing	Interparallelogram or Vendor to design
6	Exhaust Hood	360 Deg. rotatable
7	Arm and Hood rotatable 360 degree	Yes
8	No. of Arm and Flow rate on exhaust hood(m3 / hr)	ONE ARM - 1100m3/hr with arm
9	Noise Level as per DIN EN ISO 3744	72 dB Maximum at a distance of 1 meter
10	Dimension (L/W/H) - mm	1000 X 1000 X1000 mm (Maximum in all dimention)
11	Weight (Kg)	150 kgs (Maximum)
12	Filter Unit Should have Automatic Start Stop arrangmenet to save power	confirm
13	Wheels Available on extraction System	confirm
14	Material of Construction	Built of rigid sheet matel construction and finished with incorporating anti corrosive powder coating
15	The mobile fume extraction system must be tested and approved for extraction of welding smokes and fumes (Testing details, approved certificates from reputated agencies must be provided by the supplier along with the system).	confirm
Flexible Exhaut Arm		
1	**Flexible Exhasut Arm**	Flexible Exhaust Arm a fiber glass hose with a PVC coating and an internal steel wire spiral with interior parallelogram.
2	**Exhaust Hood**	Should be 360 rotatable, with SS wire mesh, in built damper and with LED lights
3	**Length of Arm**	3 Mtr. (minimum), 360 rotatable with swivel joint
Filtration Requirement		
1	**Filters present**	2 stage filteration - E 12Main Filter/HEPA Filter with efficiency more than 99.5% ,
2	**Filter Effeciency and Approval**	99.99% and IFA approved
3	**Filter Type**	Automatic/Self cleanable
4	**Certification**	W3 class approved
5	**Filter Surface area**	12 Sq. Mtr Minimum
6	**Warranty**:The entire machine inclusive of all system/accessories shall be covered under warranty for a period of 24 months (min.) from the date of installation and commissioning.	24 months
7	**Delivery Period** : Delivery period includes supply, installation, commissioning and Training	2 months

Note:		
1	Bidder shall be responsible for complete supply, installation, commissioning & prove out of the machine including transportation, unloading and loading, placement, taxes, any other cost etc.	confirm
2	Prove out according to parameters mentioned in Technical specifications.	confirm
3	Mounting tools should be in supplier's scope	confirm
4	Machine/equipment/system/plant should be supplied with all accessories including all the tools and manual. Installation, Commissioning & Training will be provided to our staff for free of cost at ALIMCO site.	confirm
5	Machine/ equipment/ system/ plant foundation details and drawings with specifications to be provided by the tenderer and foundation. Vendor to arrange machine/ equipment/ system/ plant foundation work, if required, for the installation of machine/ equipment/ system/ plant.	confirm
6	Sufficient suitable cable, cable tray, Circuit breaker, panel, BBT tap box fittings etc. to connect the machine/ equipment/ system/ plant from power source is in Vendor's scope. If machine/equipment/system/plant requires separate electrical panel that will be in vendor's scope.	confirm
7	Bidders to furnish the latest Safety Standards Compliance of all relevant safety norms & regulation of Govt. of India of the system shall be in vendor scope.	confirm
8	Breakdown calls to be attended within 72 hrs. Physically or within 24 hrs. through telediagnostic.	confirm
9	Total power consumption (in kW) to be provided by the tenderer.	confirm
10	Supply to be done on Turnkey Basis. ALIMCO shall provide electrical supply point at one near to the place of installation.	confirm
11	Compressed air pipeline will be available in the work center (Air pressure available will be approx. 5.5 to 6 bar). All necessary fittings, air dryer, air booster as per machine requirements, from factory outlet point to welding station is in vendor scope.	confirm
12	Successful tenderer has to arrange unloading and material handling at site, by their own.	confirm
13	Bidder to provide OEM recommended list of spares and consumable for two years.	confirm
14	Dedicated Earthing pit alongwith Earthing strip/wire for this machine/ equipment/ system/ plant shall be in vendor's scope.	confirm