

**QUESTIONS AND ANSWERS ON UNHCR DIESEL GENERATOR RFP/2017/863 -
19 JUNE 2017**

Question	Answer
<p>Could UNCHR please indicate an IP class for the generators and enclosures to be supplied? (a IP class is given for the control panel on page 27 but no IP is given for the generator in total)</p>	<p>As such weather proof enclosures do not get categorized as an enclosure of electrical equipment and hence do not have an IP degree of protection. It is important that the enclosure protects from rain and dust, allowing for adequate air flow. If the proposed generator has a specific IP rating, please specify this in your offer.</p>
<p>50 vs 60 HZ, 1500/1800RPM</p>	<p>Please price only for 1500rpm and 50Hz.</p>
<p>In some cases the models we anticipate to propose deviate slightly from the requested KV: Power requested Actual power pf proposed model 10KVA 16KVA 18KVA 25KVA 30KVA Please confirm that this is acceptable</p>	<p>Yes it is acceptable</p>
<p>According to the tender documents all models shall be water cooled and 1500 - or 1800RPM. This class of diesel generators (5KVA) most commonly is air-cooled and runs on 3000 - or 3600 RPM. We can produce a water-cooled unit running on 1500 - or 1800 unit but the units will costs 4 to 5 times more than a air-cooled units running 3000/3600 RPM. Will an air-cooled units with 3000/3600RPM be acceptable?</p>	<p>Yes it is acceptable</p>
<p>On page 7 it is indicated that the units shall be able to run on diesel with up to 500ppm sulphur content. We can comply with that however diesel with such ppm level (i.e. 500 ppm) will not comply with EURO Stage II G7D standards as indicated on same page. Please clarify</p>	<p>We cannot guarantee fuel quality in all locations will comply with the G7D standards and this requirement is to ensure that the generator can perform with fuels of a defined quality</p>
<p>Prime vs Continuous The units shall be prime power units. Do we need to assume that they will run through continuously that is 8000 hours per annum?</p>	<p>Please assume that Generators would run for a maximum of 14 hours per day.</p>
<p>Internal drawings</p>	<p>Yes it is acceptable, detailed drawings would only be required if a contract was to be awarded</p>

On page 17 (12.3 Drawings submissions) it is stated under point "b" that internal layout drawing of each generator showing major components shall be presented. We assume drawings for common use giving a full lay-out of each generator and components are acceptable?	
Color The tender documents do speak of the specific UN colors to be uses (white and blue) Are these colors existing RAL numbers of are they specific UN owned colors? If RAL, then please advise numbers if specific colors, we need to know composition.	Please refer to the online guide https://media.unhcr.org/brand
Variable Speed Generator are less reliable and require more expensive maintenance and service. Strongly not recommended for developing countries. Is it mandatory or “desirable” feature.	It is not mandatory and only suitable in certain contexts. Please quote only for those applications which the supplier recommends as suitable.
What is the required housing: On trailers ? No trailers ? What type of housing: for indoor or outdoor storage ?	No trailer required – Enclosure/housing is for outdoor storage
First fills diesel – can we simply pay for the first fill from local supplier?	Please exclude the first fill of fuel. Please price separately for first fill oil & coolant, from local suppliers acceptable if quality is assured.
Receiving units – radiator and sump filled as standard is this OK?	Please transport units empty of fuel, oil and coolant
Modular combination / hybrid – what is the site(s) set up? more information is required for the complexities of integrating Hybrid with Fixed speed engines?	There is no standard site set up. Hybridisation of generator sets or integration to complementary energy systems will be assessed in each case. This will not for part of this tender.
Are the Solar PV panels simply to charge the batteries in offline situation in replacement of utility doing this function?	Solar panels are not part of this tender
Are we to simply provide a remote start signal terminal from the Solar farm to start gens if the capacity drops below a threshold?	Facility for stop/start control inputs to be included – terminals for signals from external systems.
Design Life – are we to consider top overhaul and full overhaul and relate the cost to a new genset –	Please detail your own specific method of evaluating design life in your offer

in relation to the end of life cycle / disposal?	
Generator sizing Guide: template for what is requested – our standard summary rating will provide all the basic info, do you want a working document (excel) or a pdf file?	Working document – excel sheet
Central supplier location – all order(s) unit and spare parts will come through a certain region– but local support will be provided by partner/distributor network, is this OK?	Yes. Please also provide details of the partner/distributor network.
No parts that can be touched be in excess of 50DegC 1. Is this with the doors closed in normal running operation 2. Does this include the consideration of ambient 60deg machine(s)?	Please disregard this condition for parts to be touched in excess of 50degC.
Generator control panel – IP rating of 54, is this to be considered even for soundproof canopies where the panel is inside of the canopy?	The control panel is to be protected to this rating, if this is done by the canopy, this is acceptable
Automatic controls and communications – what communication protocol CANBUS / MODBUS / IP / RS485?	IP
Panel switches – is this OK to be integrated digitally onto the main controller (excluding the E-Stop)	Yes this is acceptable
Fuel consumption – calculated value of consumption with parameters or metered fuel consumption with mass flow meter and temp compensation etc etc?	Please detail the method of calculation from testing and estimations
Control interface for remote monitoring – what distance considered for volt drop alternatively can this be provided via a communication link like CANBUS or similar? Will there be service power to run the remote panel (with AC/DC converter and supply)	Interface to be IP based. The remote panel is not part of this tender.
Battery monitoring system – does this have to be separate from main generator controller or integrated is fine?	Integrated is fine
Can you confirm the Earthing supply 10 METRE lengths or copper and Galvanised Iron	As per page 31 of TOR Annex A
Outlet for distribution cable is covered with a rubber flap sealing the genset is this acceptable?	Yes this is acceptable
Outside mounted exhaust silencer – in all our gensets the silencer is housed inside the canopy but in a separate compartment to main engine alternator compartment is this OK?	Yes this is acceptable
FAT – 25%, 50%, 75% & 100% load “for a minimum of four hours” – is this at each power node or full length of the test (e.g an hour at each node)?	ISO 8528-5 G3

<p>Start excitation under black start conditions – what is the operational procedure multiple sets single sets – black start, black sync? two very different functions.</p>	<p>Black Start</p>
<p>Hand priming pump (in case of AC power outage) – are both automatic and manual pumps to be fully plumbed into assembly with a changeover valve in event of a AC failure?</p>	<p>Yes, pump to be fully plumbed into assembly with changeover valve</p>
<p>Please specify the quality of fuel; low or high grade Sulphur, low or high quality of fuel, please provide the quality grade of fuel under which the machine will operate ?</p>	<p>The quality of fuel is clearly described in chapter 9: “The fuel used is of low sulphur content of either 50 or 10 ppm in general. However, at certain locations there might be only fuel of high sulphur content (about 500 ppm) available. The engines must be able to run on both, the higher sulphur content fuel and the lower sulphur content fuel. The fuel (diesel) level emission permissible shall be in accordance to Euro Stage II G & D standards for non-road diesel constant speed engines measured under ISO 8178-4 C1 or IAPP (International Air Pollution Prevention) Certification/regulation. The fuel is NORMALLY of low sulphur content but the engine must be able to run on high sulphur content as well.”</p> <p>As mentioned in the above chapter, the fuel is: for non-road diesel with constant speed engines. Shall meet the respective Euro standards as mentioned</p> <p>In ASTM D975 standard it would be : No 2-D-S15 (low sulfur) and No 2-D S500 (high sulfur)</p>
<p>Will the cost of shipping will be proposed in two version, by air and by sea ?</p>	<p>Bidders do not quote for shipping as prices were requested for FCA (named place)</p>
<p>Please specify the temperature range.</p>	<p>For the Temperature range, a derating diagram will be given for the temperature from 20 - 55 deg. Centigrade, and if needed two models can be proposed with two separate prices. (larger temperature range will be more appreciated, and if possible our choice will be for one model only)</p>
<p>Can 5-10 KVA generators be air cooled?</p>	<p>All generator bids/tenders submitted in the 5-10kva range will be air cooled and not water</p>

	cooled
Can Anti-vibration springs or silent-block can be proposed?	Yes, as optional with a separate price.
Can generators for different altitudes be proposed?	For the Altitude, companies can propose two different Generator's model with separate prices, one from 0 to 1500 or 1700m and the second from there to 2500m, with derate charts in both cases
Can you specify the type of manuals to be proposed / submitted?	<p>Manuals will have to be sent in a light version with the</p> <ul style="list-style-type: none"> - A slimmed down generator manual will be submitted for the tender/bid in hyperlink form and an additional hyperlink to the larger complete manual should be included. - The drawing for the schematic of the generators proposed will be done on a simplified version to be send with the offer and if the product is retained, a complete detailed version will be made available via a web site.
Will it be needed to send special fluids with the generators?	Only special fluids or oil that cannot be found in the field will have to be sent with the Generator on demand and be billed separately under a price defined in this bid and proposed as optional.