



Provision of Pre-Bidding, Evaluation and Quality Control Inspection Services on the Purchase of Armoured Vehicles

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Date: 2nd June 2010

SERVICE: Provision of pre-bidding and bid evaluation support, and conducting of quality control inspections during the purchasing and manufacture of armoured vehicles for UNDP

PURPOSE: To provide UNDP with an independent service for the primary purpose of ensuring quality control and compliance on the procurement and manufacture of armoured vehicles. Quality control on the manufacture of armoured vehicles is a highly technical and complex process requiring high standards of technical and industry related expertise which is beyond that of UN procurement, security and transport personnel.

OPERATIONAL USE: Due to the security situation in Afghanistan, current UN security policies and procedures require that UN staff travel in special vehicles armoured to international standards compliant with the European Committee for Standardization (CEN) VRG standards to Vehicle Resistant Level 6 (VR6) in accordance with BRV 1999 or VPAM BRV 2009 (VR7) – DIN EN 1063, 1522 and 1523VRG, where a complete armoured vehicle of the same model and type as specified within this RFQ, shall have undergone a thorough destructive testing process from a recognized government testing agency¹, and shall have demonstrated the ability as a completed product to successfully defeat all threats defined as ballistic B6 at both 45 and 90 degrees:

¹ The preferred agency should be the German National Ballistics Laboratory, known as the *Beschussamt Mellrichstadt*, because it is the original publisher of the 'B' system of armoring standards.

- 5.56 X 45mm (SS 109)
- 5.45 X 39mm Kalashnikov
- 7.62 X 51mm (NATO)
- 7.62 X 39mm Kalashnikov
- A minimum of 2 X DM51 hand grenades detonated simultaneously directly on top and underneath the vehicle

In addition to the above certification, the armouring manufacturer should also provide blast test certification, from a recognized government testing agency such as IABG Germany, that the completed product is certified to withstand the effects of a blast from the following ordnance:

- DM31 Anti Personnel Mine blast (IED test)
- DM51 Handgrenade tests
- 15Kg Gerosit (IED test)

The additional weight of the armouring places extreme stress on the mechanical integrity of the base vehicle requiring additional mechanical upgrades and modifications to the chassis and under-carriage, braking systems, suspension systems, gearbox and drive-trains, wheels and tyres, etc to ensure that the highest degree of safety is maintained. In all instances the standard original components need to be replaced by high-performance and/or heavy-duty components and systems.

Due to the complexity of the international armouring specifications as well as the current levels and complexities of mechanical modifications and upgrades required, and considering that the integrity and quality processes of Suppliers and Armouring Manufacturers cannot be guaranteed and assessed during the bidding process, it is absolutely essential that organisations such as UNDP provide potential bidders with infinitely detailed specifications prepared by expert consultants. Similarly, it is also essential that regular quality control inspections are conducted, by qualified technical experts, on the vehicles during the actual up-armouring manufacture process to ensure that the manufacturer is providing a completed product that complies fully with the international armouring specifications mentioned above, that the manufacturer conducts all modifications and upgrades in strict accordance with the specifications provided and finally that the vehicles supplied complies with the required safety standards. Both the mechanical and armouring integrity of the vehicles is absolutely essential to ensuring the safety of UNDP staff travelling in these vehicles.

DESCRIPTION OF THE SERVICES REQUIRED:

- a) Bid Consultation Part 1: Analyses of the vehicle specification that has been drafted and ensure it conforms to the current ballistic requirements and standards for armoured vehicles and provide any amendments and advice necessary on the draft before it is distributed to potential vendors for quotations

- b) Bid Consultation Part 2: Assist with the assessment of the vendors that have participated in the RFQ process, provide technical evaluation of the quotations to ensure they fully comply with the specifications and manufacturing standards required and provide final list of those vendors that fully meet and comply with the requirements contained within the technical specification document
- c) Initial Technical Inspection (at the premises of the armouring manufacturer): To include but not limited to;
- i) Inspection of the vehicles, to be supplied to UNDP, after completion of the first stage of armouring (no interior fitted) to ensure that the materials used comply fully with the necessary ballistic certification in accordance with the specified international CEN standards of level B6.
 - ii) Inspection of all welding to ensure that the correct standards have been applied and that heat stress factors have not adversely affected the quality of these materials used.
 - iii) Inspection of all mechanical modifications and upgrades to ensure that systems, components and installation will comply fully with the specifications provided by UNDP.
 - iv) Provide a full progress report to UNDP clearly highlighting any problems or non-compliance, and making recommendations on improvements where required
- d) Final Technical Inspection (at the premises of the armouring manufacturer): To include but not limited to;
- i) Inspection of the vehicles prior to delivery ensuring that the completed vehicles comply fully with the specifications provided by UNDP.
 - ii) Inspection and testing of all functions, controls and equipment ensuring proper operation as stipulated within the specifications provided by UNDP
 - iii) Conduct a test drive and quality inspection ensuring that the mechanical upgrades and modifications contained within the specification provided by UNDP, have been completed in full and that the required levels of safety, performance and operation of the components are met.
 - iv) Inspect all mechanical modifications and upgrades to ensure that systems, components and installation will comply fully with the specifications provided by UNDP
 - v) Provide a full progress report to UNDP clearly highlighting any problems or non-compliance, and making recommendations on improvements where required

SPECIFICATIONS:

Specification	Remarks	Compliance Yes/No
Provide a valid copy of the Company's registration certificate	<ul style="list-style-type: none"> • Is the certification valid? 	
Provide a full company or personal profile listing all aspects of technical expertise and experience in armoured vehicles	<ul style="list-style-type: none"> • Is expert consultancy on armoured vehicles the core business of the company or independent consultant? 	

Specification	Remarks	Compliance Yes/No
	<ul style="list-style-type: none"> • Relevance of the technical expertise and experience of the company or independent consultant? • Does the company or independent consultant have sufficient experience of operating in conflict environments and the inherent threats? • Conduct background checks 	
Provide proof of current membership of the company and/or independent consultant to the International Association of Professional Security Consultants (IAPSC) with certification in the field of armoured vehicle manufacture and quality control	<ul style="list-style-type: none"> • Proof of valid certification in the industry of armoured vehicle specification, manufacture and quality control? • Contact IAPSC for verification of membership? 	
Provide a detailed CV of the individual consultant who will be conducting the task of quality inspections and technical advice, providing copies of all previous inspection reports	<ul style="list-style-type: none"> • Has the person conducted similar quality control services previously? • Do the reports of previous inspections indicate that the consultant has performed similar services and quality inspections to more than one or multiple agencies? • Does the consultant have a detailed understanding of the various international armouring specifications? • Does the consultant display a detailed understanding of the required mechanical safety upgrades and modifications to armoured vehicles? • Is the CV relevant? • Has the consultant sufficient experience of operating in conflict environments and the inherent threats? 	

Specification	Remarks	Compliance Yes/No
	<ul style="list-style-type: none"> • Conduct background checks 	
Provide a detailed list, together with client contact details, of all previous quality control inspections and technical advice on armoured vehicles previously conducted, including copies of previous quality control reports provided to clients	<ul style="list-style-type: none"> • Has the company/consultant provided examples of previous inspection reports? • Has the consultant conducted quality control inspections at multiple manufacturers or only one? • Does the consultant display a detailed understanding of the various international armouring specifications? • Does the consultant display a detailed understanding of the required mechanical safety upgrades and modifications to armoured vehicles? • Is the previous experience relevant? • Conduct background checks 	
Provide proof that the company and/or independent consultant is not directly associated with the manufacturing or supplying of armoured vehicles?	<ul style="list-style-type: none"> • Has the company or independent consultant provided satisfactory proof? • Check company registration records? • Conduct industry checks? 	
Provide proof that the company and/or independent consultant, is not a subsidiary of a company that is directly associated with the manufacturing or supplying of armoured vehicles?	<ul style="list-style-type: none"> • Has the company or independent consultant provided satisfactory proof? • Check company registration records? • Conduct industry checks? 	

COSTING SCHEDULE:

UNDP reserves the right to select a part of the service requested.

Cost if the order for armoured vehicles is placed with a European based supplier:	
Service	Cost (US\$)
Tender Consultation Part 1 & 2	

Initial Quality Control Inspection	
Final Quality Control Inspection	

Cost if the order for armoured vehicles is placed with a U.A.E. based supplier:	
Service	Cost (US\$)
Tender Consultation Part 1 & 2	
Initial Quality Control Inspection	
Final Quality Control Inspection	