

المواصفات الفنية الخاصة بالمناقصة العامة

رقم المناقصة : (٢٠١١/٤١)

الخاصة بشراء وتوريد (٣٢) مجموعة بطاريات مختلفة

الأنواع والسعات مع التدريب

المؤسسة العامة للاتصالات السلكية واللاسلكية

الإدارة العامة للمشتريات والمخازن

إدارة المشتريات - قسم العقود والمناقصات

Technical SPECIFICATION FOR Batteries (1500-3000) AH lead acid cells(2011

المواصفات الخاصة بالمنافسة رقم

This specification defines the requirements of the batteries lead acid cells for power source for telecommunication systems.

1. Batteries required:

1. The batteries requirement shall be lead acid battery system, high reliability, high quality standards, high rate discharge heavy duty industrial and high impact resistance.
2. Set consist of 24 cells with nominal voltage 48v/dc(each cell 2v and must be single)
3. Rated battery capacity each set =XXXXAH@C10 to 1.8Vpc.
4. Quality assurance requirement.
5. The tender should provide 5years full warranty period and country of origin, documentations.
- 6.

2. Autonomy Time:

7. Two parallel batteries group that composites an ampere-hours rating sufficient for emergency period xx hours at full rated output (must be specified).
8. Each comprises of 24 cells X 2V/CELL.

3. Guaranteed life of Batteries:

1. Guaranteed life is not less than 15years with a capacity drop down to not less than 80% under normal expected service.

4. Environment:

The batteries shall be designed and suitable for continuous operation at:

- | | |
|----------------|---------------|
| a) Temperature | 0 – 30 °c. |
| b) Humidity | up to 90. |
| c) Altitude | 2500 M a s l. |

5. Electrical:

- | | |
|---------------------------------|-------------------------------------|
| a) System rated | XXXXAH constant power for each set. |
| b) Nominal voltage | 2V/cell. |
| c) Minimum battery test voltage | 1.9V. |
| d) End of discharge voltage | 1.8v. |
| e) Storage voltage for each set | 52volt. |
| f) Floating voltage | (2.15-2.25)/cell@25 °c. |

SPECIFICATION FOR Batteries (sealed lead acid cells 600AH ,800AH)

(2011 - المواصفات الخاصة بالمنافسة رقم)

This specification defines the requirements of the batteries sealed lead acid cells for power source for telecommunication systems.

1. Batteries required:

1. The batteries requirement shall be sealed lead acid battery system, high reliability, high quality standards, high rate discharge heavy duty industrial and high impact resistance Sealed free maintenance.
2. Set consist of 24 cells with nominal voltage 48v/dc(each cell 2v and must be single)
3. Rated battery capacity each set =XXXXAH@C10 to 1.8Vpc.
4. Quality assurance requirement.
5. The tender should provide 5years full warranty period and country of origin, documentations.

2. Autonomy Time:

2. Two parallel batteries group that composites an ampere-hours rating sufficient for emergency period xx hours at full rated output (must be specified).
3. Each comprises of 24 cells X 2V/CELL.

3. Guaranteed life of Batteries:

1. Guaranteed life is not less than 15years with a capacity drop down to not less than 80% under normal expected service.

4. Environment:

The batteries shall be designed and suitable for continuous operation at:

- | | |
|----------------|---------------|
| a) Temperature | 0 – 3 0 °c. |
| b) Humidity | up to 90. |
| c) Altitude | 2500 M a s l. |



Technical Specification for Battery

description	PTC Specification	Tender Specifications
Name of Batteries and model NO		
Manufacture AND TYPE		
Country of origin	should be in delivery year	
Date OF Manufacture		
Recommended battery cells	24cell for each group	
Batteries rated	xxxxAH constant power	
Nominal voltage/cell	2V	
Floating voltage	2.2V/CELL	
Minimum battery test voltage	1.9V /CELL	
Battery low voltage warning alarm	46.5V	
Battery low voltage cutoff	1.8 /CELL	
Battery high voltage alarm	56V and 2.3v/CELL	
Battery high voltage cutoff charge	57V	
Current @end of discharge End of discharge voltage A		
Battery ripple current A		
Battery frequency deep discharge		
Storage voltage for each set	52volt	
NO of Plates Negative and Positive		
Type of plates Negative and Positive(material made of)		
Intenal Resistance (mΩ)		
Spanalear type		
Type of Electrolyt		
Max Charge Current		
Max discharge Current		
ReCharge Voltage		
Equalization Voltage		
Min discharge Voltage		
Self discharge		
Efficiency @ 10h(Ah and WAH)		
Environment of Batteries		
Ambient temperature	0 TO 30 °c	
Remaining battery life(MIN)	15 years	
Humidity	up to 90 %	
MTBF		
Optimum battery temperature °c		
Altitude	2500M a.s.l	
Dimensions (H x W x L) mm		
Cell Weight KG		
Batteries run time at full load	...xxx..hours	

الرقم :
التاريخ :

المعايير الأساسية للبطاريات الجافة والسائلة

High Level Requirement

- 1) The batteries must be European technical, , heavy duty and high quality.
- 2) Sealed lead acid, and deep discharge cycles , C100 for 600Ah,800Ah.
- 3) Lead acid and deep discharge cycles , C10 for (1500Ah, 2000Ah,3000Ah).
- 4) Single cell with voltage (2V).
- 5) The life of the batteries must be design as a deep of discharge (DOD)@80% of capacity is 1500 cycles (minimum).
- 6) The manufacture company shall provide warranty of quality for expected life (15 Years minimum).
- 7) Operation temperature (5-45) °C (minimum).
- 8) The manufacture company must be give an answer table of every item of the specifications (item by item).





جدول الكميات للبطاريات

Schedule of the required quantities

م	الصنف Item	الكمية Qty.	سعر الوحدة \$U. price	الاجمالي T. price \$
1	3000AH BATTERY SET(24 cell) lead acid cells سائله (not free maintenance) with separate electrolyte for every group(24 cell) the electrolyte: must be in refills with capacity 30 liter	2		
2	800AH free maintenance BATTERY SET(24 cell) جافه (seald lead acid cells)	30		
الاجمالي العام بالدولار				

NOTS :

1-THE BATTERY must be complete with interconnections

ex: 1- battery rack, insulated flexible cable ,terminals, screws,connectors....etc

2- Accessories: documentations operating instructions,digital
voltamete,spanners,gloves....etc