

**المواصفات الفنية الخاصة بالمناقصة العامة**

**رقم المناقصة : (٢٠١١/٧٤)**

**الخاصة بشراء وتوريد (٣٩٥) بوكس ألياف ضوئية مختلفة**

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**الساعات**

**المؤسسة العامة للاتصالات السلكية واللاسلكية**

**الإدارة العامة للمشتريات والمخازن**

**إدارة المشتريات - قسم العقود والمناقصات**

## **optical fibre terminating box 10/16 fibers (distribution panel)**

- 1- for 10/16 fibers, it should be wall mounted indoor.
- 2- preconnectorized pigtails will be spliced to the cable and connected to FC/PC distribution frame .
- 3- including all termination materiel for splicing 10/16 fibers ( protection sleeves, splice trays ).
- 4- The panel should have cable entries for 2 cables with needed materials.
- 5- It should have fiber patch cord entries for at least 10/16 fiber cords .
- 6- Equipped with fiber organizer of sufficient capacity to hold the fibers, splice parts and access length of fiber after splicing .
- 7- It should include clamp parts inside the box for the cable strength member to prevent pulling out the cable from the box .
- 8- It should have system to prevent puling out the fiber cord end from the organizer .
- 9- It should be corrosion resistant .
- 10- The tenderere should offer one sample of terminating box.
- 11- The tenderere must offer catalogues which clear mechanical constriction details, dimension – drawing of the product of offered of the installation constrictions .
- 12- Information to be supplied manufacturers name :
  - country of origin
  - make/model/code no
  - box contents
  - materials used
  - operating environment



note : these minimum requirements are in general and you can offer any extra features or different design for the same purpose .

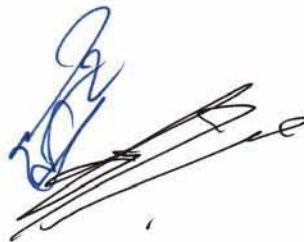


**optical fibre terminating box 24/48 fibers**  
**( distribution panel)**

- 1- for 24/48 fibers, it should be wall mounted indoor.
- 2- preconnectorized pigtails will be spliced to the cable and connected to FC/PC distribution frame .
- 3- including all termination materiel for splicing 24/48 fibers ( protection sleeves, splice trays ).
- 4- The panel should have cable entries for 4 cables with needed materials.
- 5- It should have fiber patch cord entries for at least 24/48 fiber cords .
- 6- Equipped with fiber organizer of sufficient capacity to hold the fibers, splice parts and access length of fiber after splicing .
- 7- It should include clamp parts inside the box for the cable strength member to prevent pulling out the cable from the box .
- 8- It should have system to prevent puling out the fiber cord end from the organizer .
- 9- It should be corrosion resistant .
- 10- The tenderere should offer one sample of terminating box.
- 11- The tenderere must offer catalogues which clear mechanical constriction details, dimension – drawing of the product of offered of the installation constrictions .
- 12- Information to be supplied manufacturers name :
  - country of origin
  - make/model/code no
  - box contents
  - materials used
  - operating environment



note : these minimum requirements are in general and you can offer any extra features or different design for the same purpose .

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**optical fibre terminating box 36/72 fibers**  
**( distribution panel)**

- 1- for 36/72 fibers, it should be wall mounted indoor.
- 2- preconnectorized pigtailed will be spliced to the cable and connected to FC/PC distribution frame .
- 3- including all termination material for splicing 36/72 fibers ( protection sleeves, splice trays ).
- 4- The panel should have cable entries for 4 cables with needed materials.
- 5- It should have fiber patch cord entries for at least 36/72 fiber cords .
- 6- Equipped with fiber organizer of sufficient capacity to hold the fibers, splice parts and access length of fiber after splicing .
- 7- It should include clamp parts inside the box for the cable strength member to prevent pulling out the cable from the box .
- 8- It should have system to prevent pulling out the fiber cord end from the organizer .
- 9- It should be corrosion resistant .
- 10- The tenderere should offer one sample of terminating box.
- 11- The tenderere must offer catalogues which clear mechanical constrictions details, dimension – drawing of the product of offered of the installation constrictions .
- 12- Information to be supplied manufacturers name :
  - country of origin
  - make/model/code no
  - box contents
  - materials used
  - operating environment

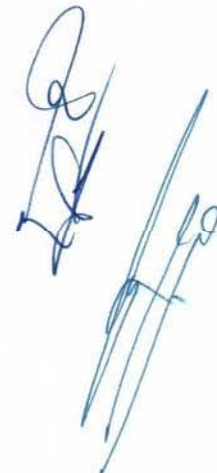


note : these minimum requirements are in general and you can offer any extra features or different design for the same purpose .

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**optical fibre terminating box 48/96 fibers**  
**( distribution panel)**

- 1- for 48/96 fibers, it should be wall mounted indoor.
- 2- preconnectorized pigtailed will be spliced to the cable and connected to FC/PC distribution frame .
- 3- including all termination material for splicing 48/96 fibers ( protection sleeves, splice trays ).
- 4- The panel should have cable entries for 4 cables with needed materials.
- 5- It should have fiber patch cord entries for at least 48/96 fiber cords .
- 6- Equipped with fiber organizer of sufficient capacity to hold the fibers, splice parts and access length of fiber after splicing .
- 7- It should include clamp parts inside the box for the cable strength member to prevent pulling out the cable from the box .
- 8- It should have system to prevent pulling out the fiber cord end from the organizer .
- 9- It should be corrosion resistant .
- 10- The tenderere should offer one sample of terminating box.
- 11- The tenderere must offer catalogues which clear mechanical constriction details, dimension – drawing of the product of offered of the installation constrictions .
- 12- Information to be supplied manufacturers name :
  - country of origin
  - make/model/code no
  - box contents
  - materials used
  - operating environment





note : these minimum requirements are in general and you can offer any extra features or different design for the same purpose .

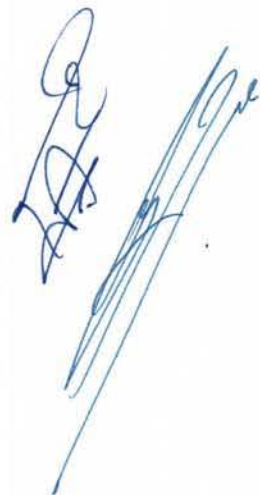
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## **optical fibre terminating box 64/128 fibers** **(distribution panel)**

- 1- for 64/128 fibers, it should be wall mounted indoor.
- 2- preconnectorized pigtails will be spliced to the cable and connected to FC/PC distribution frame .
- 3- including all termination materiel for splicing 64/128 fibers ( protection sleeves, splice trays ).
- 4- The panel should have cable entries for 4 cables with needed materials.
- 5- It should have fiber patch cord entries for at least 64/128 fiber cords .
- 6- Equipped with fiber organizer of sufficient capacity to hold the fibers, splice parts and access length of fiber after splicing .
- 7- It should include clamp parts inside the box for the cable strength member to prevent pulling out the cable from the box .
- 8- It should have system to prevent puling out the fiber cord end from the organizer .
- 9- It should be corrosion resistant .
- 10- The tenderere should offer one sample of terminating box.
- 11- The tenderere must offer catalogues which clear mechanical constriction details, dimension – drawing of the product of offered of the installation constrictions .
- 12- Information to be supplied manufacturers name :
  - country of origin
  - make/model/code no
  - box contents
  - materials used
  - operating environment



note : these minimum requirements are in general and you can offer any extra features or different design for the same purpose .

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## **additional specification requirements distribution boxes**

- the distribution box must have two zones : splice tray pigtail, and cable must be located in one part fo the distribution box about 60% from the total eara of the box . And the patch card located in the other part of the box about 40% from the total eara of the box .

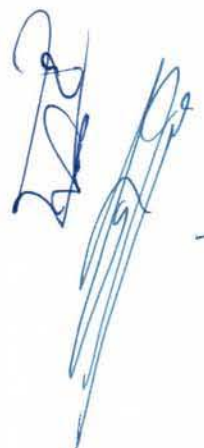
### **specifications of pigtail ( single mode):**

- high quality material .
- length must be more than 3 meters .
- coating stripping tension must be less than 1.3 n .
- loss incurred by connector ( due to connection ) must be less than 0.5 DB.

### **Specifications of splice tray :**

- splice tray must be spacious enough to install the fibers easily .
- protection sleeve sockets inside trays must line next to each other, and must not allow sleeves to be stacked one on top of the other .
- tray capacity must allow 12 sleeves to be installed .
- price quoted for each distribution box must be complete to include all required components .
- a detail list of all accessories pertaining to each distribution box type must be included in your offer, and has to be signed and stamped by your company .
- installation manual from manufacturer in English language must be enclosed with your offer .

The tender must offer the sample terminating box at least of 48f.



مواصفات بوكس سعة ١٠ فيبر	
item	sep
type of box	distribution box
box material	steel or almhimm
box capacity	10 to 16
box dimension	suitable dimension
box fixing	indoor wall-mount
box locking	found
store area for	↓
1-fiber	enough area
2-pigtail	enough area
3-loose tube	enough area
4-patch cord	enough area
no.of cable entries	two
the sides of entries	up&down sides
the clamping and sealing of the inlet cable	rubber loop
the clamp parts of the cable strength member	fixed interface
the cable clamp	suitable clamp
the patch cord entries	suitable
no.of trays per box	one or two
the position of tray	suitable
splice capacity	10 to 16
protection sleeve fixing in tray	gluing or compressing
losse tube fixing in tray	compressing or connection
no of pigtail per box	10 to 16
the length of pigtail	3m
type of pigtail	FC/PC(sm)
type of adapter	FC/PC(3M)
no of adapter per module	suitable
no of module per box	suitable
CLAMP OF PATCH CORD	for the same material of box
adapter arrangement	VERTICAL
no of splice sleeve per box	10 to 16
the length of splice	40 TO 60mm

مواصفات بوكس سعة ٦٤ فيبر	
item	sep
type of box	distribution box
box material	suitable material
box capacity	64/72
box dimension	suitable dimension
box fixing	indoor wall-mount
box locking	found
store area for	
1-fiber	enough area
2-pigtail	enough area
3-loose tube	enough area
4-patch cord	enough area
no.of cable entries	6
the sides of entries	up&down sides
the clamping and sealing of the inlet cable	rubber loop
the clamp parts of the cable strength member	fixed interface
the cable clamp	suitable clamp

the patch cord entries	suitable
no. of trays per box	suitable
the position of tray	suitable
splice capacity	64/72
protection sleeve fixing in tray	gluing or compressing
loose tube fixing in tray	compressing or connection
no of pigtail per box	64/72
the length of pigtail	3m
type of pigtail	FC/PC(sm)
type of adapter	FC/PC(3M)
no of adapter per module	suitable
no of module per box	suitable
CLAMP OF PATCH CORD	for the same material of box
adapter arrangement	VERTICAL
no of splice sleeve per box	64/72
the length of splice	40 TO 60mm

مواصفات بوكس سعة ٤٨ فيبر	
item	sep
type of box	distribution box
box material	suitable material
box capacity	48
box dimension	suitable dimension
box fixing	indoor wall-mount
box locking	found
store area for	
1-fiber	enough area
2-pigtail	enough area
3-loose tube	enough area
4-patch cord	enough area
no. of cable entries	4
the sides of entries	up&down sides
the clamping and sealing of the inlet cable	rubber loop
the clamp parts of the cable strength member	fixed interface
the cable clamp	suitable clamp
the patch cord entries	suitable
no. of trays per box	suitable
the position of tray	suitable
splice capacity	48
protection sleeve fixing in tray	gluing or compressing
loose tube fixing in tray	compressing or connection
no of pigtail per box	48
the length of pigtail	3m
type of pigtail	FC/PC(sm)
type of adapter	FC/PC(3M)
no of adapter per module	suitable
no of module per box	suitable
CLAMP OF PATCH CORD	for the same material of box
adapter arrangement	VERTICAL
no of splice sleeve per box	48
the length of splice	40 TO 60mm

مواصفات بوكس سعة ٢٤ فيبر

sep	item
distribution box	type of box
suitable material	box material
24/36	box capacity
suitable dimension	box dimension
indoor wall-mount	box fixing
found	box locking
	store area for
enough area	1-fiber
enough area	2-pigtail
enough area	3-loose tube
enough area	4-patch cord
4	no.of cable entries
up&down sides	the sides of entries
rubber loop	the clamping and sealing of the inlet cable
fixed interface	the clamp parts of the cable strength member
suitable clamp	the cable clamp
suitable	the patch cord entries
suitable	no.of trays per box
suitable	the position of tray
24/36	splice capacity
gluing or compressing	protection sleeve fixing in tray
compressing or connection	losse tube fixing in tray
24/36	no of pigtail per box
3m	the length of pigtail
FC/PC(sm)	type of pigtail
FC/PC(3M)	type of adapter
suitable	no of adapter per module
suitable	no of module per box
for the same material of box	CLAMP OF PATCH CORD
VERTICAL	adapter arrangement
24/36	no. of splice sleeve per box
40 TO 60mm	the length of splice

مواصفات بوكس سعة 36 فيبر

sep	item
distribution box	type of box
suitable material	box material
36/48	box capacity
suitable dimension	box dimension
indoor wall-mount	box fixing
found	box locking
	store area for
enough area	1-fiber
enough area	2-pigtail
enough area	3-loose tube
enough area	4-patch cord
4	no.of cable entries
up&down sides	the sides of entries
rubber loop	the clamping and sealing of the inlet cable
fixed interface	the clamp parts of the cable strength member
suitable clamp	the cable clamp
suitable	the patch cord entries
suitable	no.of trays per box
suitable	the position of tray
36/48	splice capacity
gluing or compressing	protection sleeve fixing in tray
compressing or connection	loose tube fixing in tray
36/48	no of pigtail per box
3m	the length of pigtail
FC/PC(sm)	type of pigtail
FC/PC(3M)	type of adapter
suitable	no of adapter per module
suitable	no of module per box
for the same material of box	CLAMP OF PATCH CORD
VERTICAL	adapter arrangement
36/48	no. of splice sleeve per box
40 TO 60mm	the length of splice



**Schedule of tender no. 74/2011**  
**for the supply of Optical Fiber Cable Accessories**  
**(Distribution Panel)**

<b>Item No</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit price</b>	<b>Total Price</b>
1	Optical fiber terminating box 10 fibers (distribution panel)	250		
2	Optical fiber terminating box 24-48 fibers (distribution panel)	50		
3	Optical fiber terminating box 36-72 fibers (distribution panel)	70		
4	Optical fiber terminating box 48-96 fibers (distribution panel)	10		
5	Optical fiber terminating box 64-128 fibers (distribution panel)	15		
	<b>Total</b>	<b>395</b>		

1. Specification of above items are required