

Invitation to Bid No. : N2.EB.(จพ.)-25-2564

Specification No. : RHDW-011/2556

C3 Schedule of detailed requirement

Item	PEA Material No.	Quantity	Description
(7) 35	01130002 (1010130002)	7,000 ชิ้น	Ditto as Item 33, but M 16. 500 mm long, length of thread 450 mm, see Drawing No. S 01-015/17007.
(8) 36	01130003 (1010130003)	10 ชิ้น	Ditto as Item 33, but M 16. 600 mm long, length of thread 550 mm, see Drawing No. S 01-015/17007.
37	01130004 (1010130004)		Ditto as Item 33, but M 16. 550 mm long, length of thread 500 mm, see Drawing No. S 01-015/17007.
38	01130005 (1010130005)		Ditto as Item 33, but M 16. 650 mm long, length of thread 600 mm, see Drawing No. S 01-015/17007.
39	01140000 (1010140000)		Bolt, round eye, of mild steel, forged round eye having 22 mm diameter hole, M 16, 100 mm long, length of thread 75 mm; complete with two (2) square nuts, minimum breaking strength not less than 5,000 kgf, see Drawing No. S 01-015/19041.
40	(1010140004)		Ditto as Item 39, but M 16, 150 mm long, length of thread 100 mm, see Drawing No. SA2-015/39018 .
(9) 41	01140001 (1010140001)	1,200 ชิ้น	Ditto as Item 39, but M 16, 200 mm long, length of thread 150 mm, see Drawing No. S 01-015/19041 .
42	01140002 (1010140002)		Ditto as Item 39, but M 16, 250 mm long, length of thread 200 mm, see Drawing No. S 01-015/19041 .
43	01140003 (1010140003)		Ditto as Item 39, but M 16, 300 mm long, length of thread 250 mm, see Drawing No. S 01-015/19041 .

II.

Invitation to Bid No. : N2.EB.(จข.)-25-2564

Specification No. : RHDW-011/2556

C3 Schedule of detailed requirement

Item	PEA Material No.	Quantity	Description
44	01150000 (1010150000)		Bolt, oval eye, forged steel, M 16, 150 mm long, length of thread 100 mm, complete with one(1) square nut, minimum breaking strength not less than 6,500 kgf, see Drawing No. SB1-015/22018.
45	01150001 (1010150001)		Ditto as Item 44, but M 16, 200 mm long, length of thread 150 mm, see Drawing No. SB1-015/22018.
46	01150002 (1010150002)		Ditto as Item 44, but M 16, 350 mm long, length of thread 150 mm, see Drawing No. SB1-015/22018.
47	01150100 (1010150100)		Ditto as Item 44, but M 20, 350 mm long, length of thread 150 mm, minimum breaking strength not less than 12,000 kgf, see Drawing No. SB1-015/22019.
48	01150101 (1010150101)		Ditto as Item 44, but M 20, 450 mm long, length of thread 200 mm, minimum breaking strength not less than 12,000 kgf, see Drawing No. SB1-015/22019.
49	01160000 (1010160000)		Bolt, stubbing, full thread, of mild steel, M 24, 600 mm long, complete with four (4) square nuts and two (2) flat washers 72x72x6 mm, 26 mm diameter hole.
50	01160001 (1010160001)		Ditto as Item 49, but M 24, 800 mm long .
51	01160002 (1010160002)		Ditto as Item 49, but M 24, 1,000 mm long .
52	01160003 (1010160003)		Ditto as Item 49, but M 24, 1,250 mm long .
53	01160004 (1010160004)		Ditto as Item 49, but M 24, 1,600 mm long .
54 (10)	01180001 (1010180001)	11,080 ชิ้น	Nut, eye, of mild steel, similar to DIN 582, forged eye 35 mm in diameter, thread for bolt M 16, minimum breaking strength not less than 5,000 kgf, see Drawing No. S 01-015/16004 .
55	01180002 (1010180002)		Eyelet, according to NEMA standards or equivalent, minimum breaking strength not less than 8,320 kgf, see Drawing No. SB1-015/22028.

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C3 Schedule of detailed requirement

Item	PEA Material No.	Quantity	Description
56	01180003 (1010180003)		Nut, eye, thimble, forged steel, thread for bolt M 16, minimum breaking strength not less than 6,500 kgf, see Drawing No. SB1-015/22029.
57	01180004 (1010180004)		Ditto as Item 56, but thread for bolt M 20, minimum breaking strength not less than 8,200 kgf, see Drawing No. SB1-015/22029.
(11) 58	01180100 (1010180100)	247,000 อัน	Washer, square, flat, of steel, according to Table 6 of TIS 258, nominal size 16 ($18 \begin{smallmatrix} +0.7 \\ 0 \end{smallmatrix}$ mm diameter hole), 52x52x4.5 mm.
59	01180101 (1010180101)		Ditto as Item 58, but nominal size 20 ($22 \begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$ mm diameter hole), 62 x 62 x 6 mm.
60	01180102 (1010180102)		Ditto as Item 58, but nominal size 24 ($26 \begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$ mm diameter hole), 72 x 72 x 6 mm.
61	01180103 (1010180103)		Ditto as Item 58, but nominal size 12 ($14 \begin{smallmatrix} +0.7 \\ 0 \end{smallmatrix}$ mm diameter hole), 40 x 40 x 3.2 mm.
62	01180200 (1010180200)		Washer, square, curved, of mild steel, dimensions 50x50x5 mm, 18 mm diameter hole, see Drawing No. K 31-09073.
63	01180201 (1010180201)		Ditto as Item 62, but dimensions 60 x 60 x 5 mm, 22 mm diameter hole, see Drawing No. K31-09073.
64	01180300 (1010180300)		Washer, lock, of spring steel, according to Table 1 of TIS 259, nominal size 12 ($12.2 \begin{smallmatrix} +0.6 \\ 0 \end{smallmatrix}$ mm diameter hole), 21.5 mm maximum outside diameter, 3.0 mm minimum thick.
(12) 65	01180301 (1010180301)	3,000 อัน	Ditto as Item 64, but nominal size 16 ($16.2 \begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$ mm diameter hole), 28.0 mm maximum outside diameter, 4.0 mm minimum thick.

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Specification No. : RHDW-011/2556

C4 Price schedule

Manufacturer :

Trade-mark :

Country of Origin:

Bidder :

Bid No. :

Date :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
(13) 1	01200001 C1010200001		Brace, flat, for crossarm, of flat steel 30x6x760 mm.	5,300 อัน	(เสนอราคาในระบบ e-GP เท่านั้น)	
2	01200002 C1010200002		Ditto as Item 1, but 40x6x1,000 mm.			
3	01200003 C1010200003		Ditto as Item 1, but 50x10x1,950 mm.			
4	01200004 C1010200004		Brace, alley arm, of angle steel, 40x40x5 mm, 2,120 mm long.			
5	01200005 C1010200005		Ditto as Item 4, but 50x50x6 mm, 2,350 mm long.			
6	01200007 C1010200007		Brace, for crossarm, of hot - rolled equal angle steel, 50x50x6 mm, 1,800 mm wide, 450 mm drop, hot - dip galvanized not less than 50 micrometer, see Drawing No. SBI-015/22014			
7	01110000 C1010110000		Bolt, machine, M 8x 25 mm, complete with one (1) square nut.			
8	01110101 C1010110101		Ditto as Item 7, but M 12x 50 mm			
9	01110200 C1010110200		Ditto as Item 7, but M 16x130 mm			

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C4 Price schedule

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
(1) 10	01110201 C1010110201)		Ditto as Item 7, but M 16x170 mm	102,000 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
(2) 11	01110202 C1010110202)		Ditto as Item 7, but M 16x200 mm	63,300 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
(3) 12	01110203 C1010110203)		Ditto as Item 7, but M 16x250 mm	100,900 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
13	01110204 C1010110204)		Ditto as Item 7, but M 16x300 mm	-		
(4) 14	01110205 C1010110205)		Ditto as Item 7, but M 16x350 mm	20,000 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
(5) 15	01110206 C1010110206)		Ditto as Item 7, but M 16x400 mm	12,600 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
16	01110207 C1010110207)		Ditto as Item 7, but M 16x450 mm			
17	01110208 C1010110208)		Ditto as Item 7, but M 16x500 mm			
18	01110209 C1010110209)		Ditto as Item 7, but M 16x600 mm			
19	01110300 C1010110200)		Ditto as Item 7, but M 20x350 mm			
20	01110301 C1010110201)		Ditto as Item 7, but M 20x400 mm			

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C4 Price schedule

Manufacturer :
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 Bid No. :
 Date :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
31	01120004 (1010120004)		Ditto as Item 27, but M 16x600 mm.			
32	01120005 (1010120005)		Ditto as Item 27, but M 16x650 mm.			
33	01130000 (1010130000)		Bolt, double arming forged round eye, 16x400 mm, complete with three (3) square nuts, minimum breaking strength			
			kgf.			
(6) 34	01130001 (1010130001)		Ditto as Item 33, but M 16x450 mm, minimum breaking strength	12,890 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
			kgf.			
(7) 35	01130002 (1010130002)		Ditto as Item 33, but M 16x500 mm, minimum breaking strength	7,000 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
			kgf.			
(8) 36	01130003 (1010130003)		Ditto as Item 33, but M 16x600 mm, minimum breaking strength	10 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
			kgf.			

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C4 Price schedule

Manufacturer :
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 Bid No. :
 Date :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
37	01130004 (1010130004)		Ditto as Item 33, but M 16x550 mm, minimum breaking strength kgf.			
38	01130005 (1010130005)		Ditto as Item 33, but M 16x650 mm, minimum breaking strength kgf.			
39	01140000 (1010140000)		Bolt, forged round eye, M 16x100 mm, complete with two (2) square nuts, minimum breaking strength kgf.			
40	(1010140004)		Ditto as Item 39, but M 16x150 mm, minimum breaking strength kgf.			
(9) 41	01140001 (1010140001)		Ditto as Item 39, but M 16x200 mm, minimum breaking strength kgf.	1,200 ชิ้น	(เสนอราคาในระบบ e-GP เท่านั้น)	
42	01140002 (1010140002)		Ditto as Item 39, but M 16x250 mm, minimum breaking strength kgf.			

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Bid No. :

Date :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
50	01160001 (1010160001)		Ditto as Item 49, but M 24x800 mm .			
51	01160002 (1010160002)		Ditto as item 49, but M 24x1,000 mm .			
52	01160003 (1010160003)		Ditto as Item 49, but M 24x1,250 mm .			
53	01160004 (1010160004)		Ditto as Item 49, but M 24x1,600 mm .			
(10) 54	01180001 (1010180001)		Nut, forged eye M 16, minimum breaking strength kgf.	11,080 อัน	(เสนอราคาในระบบ e-GP เท่านั้น)	
55	01180002 (1010180002)		Eyelet, minimum breaking strength kgf.			
56	01180003 (1010180003)		Nut, eye, thimble, minimum breaking strength kgf.			
57	01180004 (1010180004)		Ditto as Item 56, minimum breaking strength kgf.			
(11) 58	01180100 (1010180100)		Washer, square, flat, nominal size 16 .	247,000 อัน	(เสนอราคาในระบบ e-GP เท่านั้น)	
59	01180101 (1010180101)		Ditto as Item 58, but nominal size 20 .			
60	01180102 (1010180102)		Ditto as Item 58, but nominal size 24 .			
61	01180103 (1010180103)		Ditto as Item 58, but nominal size 12 .			

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C4 Price schedule

Manufacturer :
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 Bidder :
 Bid No. :
 Date :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
62	01180200 C1010180200		Washer, square, curved 50x50x5 mm, 18 mm diameter hole.			
63	01180201 C1010180201		Ditto as Item 62, but 60x60x5 mm, 22 mm diameter hole.			
64	01180300 C1010180300		Washer, lock, nominal size 12.			
65 (12)	01180301 C1010180301		Ditto as Item 64, but nominal size 16.	3,000 ชิ้น	(เสนอราคาแบบ e-GP เท่านั้น)	
66	01180302 C1010180302		Ditto as Item 64, but nominal size 20.			
67	01180303 C1010180303		Ditto as Item 64, but nominal size 24.			
68	01050000 C1010050000		Pipe, steel, nominal size 20, 100 mm long.			
69	01050002 C1010050002		Ditto as Item 68, but 150 mm long.			
70	01000100 C1010000100		Alley arm, of channel steel, 100x50x5 mm, 2,250 mm long.			
71	00120004 C1000120004		Crossarm, of channel steel, 150x75x9 mm, 3,000 mm long.			
72	01000400 C1010000400		Channel steel beam, nominal size 200x80x7.5 mm, 1,000 mm long.			
73	01010000 C1010010000		Angle steel beam, nominal size 65x65x6 mm, 1,000 mm long.			
74	01030102 C1010030102		Plate, steel, double arming, 12x100 mm, 760 mm long.			

TABLE THICKNESS OF ZINC COATING

STEEL CATEGORY/MATERIAL	STEEL THICKNESS RANGE (mm)	MINIMUM AVERAGE COATING THICKNESS (μm)
FASTENERS :		
- BOLT, PIN, NUT, LOCK NUT :		
- UP TO M 10		43
- OVER M 10		53
- WASHER, LOCKWASHER	< 4.76 4.76 - 6.35	43 53
- ANCHOR ROD		80
CASTINGS :		
- SOCKET EYE, SOCKET CLEVIS, STRAIN CLAMP, etc.,		86
FORGED ARTICLES :		
- BALL HOOK, Y CLEVIS BALL, BALL CLEVIS, BALL EYE, CLEVIS EYE, ANCHOR SHACKLES, etc.,		56
STRUCTURAL SHAPE :		
- STEEL CHANNEL, STEEL ANGLE, CROSSARM STEEL, BAYONET, GROUND ROD, etc.,	< 1.6 < 3.2 3.2 - 6.4 > 6.4	45 65 85 100
STRIP :		
- BRACE, GUY THIMBLE, GUY GUARD, RACK, CLEVIS, STEEL BRACKET, PLATE STEEL, SPACER PLATE, etc.,	< 1.6 < 3.2 < 4.8 4.8 - 6.4 > 6.4	45 65 75 85 100
PIPE :		
	≥ 3.2	75

NOTE : THICKNESS OF COATING OF SPECIMENS SHALL BE MEASURED WITH A MAGNETIC MEASURING INSTRUMENT "MICROTEST" OR "ELECTROMAGNETIC COATING THICKNESS GAUGE"

Form No. 93-0/2.96

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