

KUWAIT NATIONAL PETROLEUM COMPANY  
 COMMERCIAL DEPARTMENT  
 PROCUREMENT-MAA  
 MINA AHMADHI REFINERY - Admin Bldg. Room  
 #13  
 P.O. BOX 70, SAFAT - 13001, KUWAIT  
 Phone : (965) 23881843  
 Fax : (965) 23260280

## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
1	011219	STUD:BOLT,3/4 IN DIA,THD UNC 2A,10.23 IN LG,ASTM-A193,GR B7M	MAA Refinery	28	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** STUDBOLTS,WITH NUT,NO MOD,NO MOD

GRADE:	BOLT: B7M / NUT: 2HM
LENGTH:	10.23 IN
MAT SPEC, NUT(S):	ASTM A194
MAT SPEC, STUD BOLT(S):	ASTM A193
NUMBER, NUTS PER STUD BOLT:	2
SIZE:	3/4 IN
THREAD LENGTH:	FULLY THREADED
TYPE OF THREAD:	UNC, 10 TPI
TYPE, NUT:	HEAVY HEXOGONAL (SEMI FINISHED)
DESIGN SPEC, NUT:	ASME / ANSI B18.2.2
DESIGN SPEC, STUD BOLT:	ASME / ANSI B18.2.1
DESIGN SPEC, THREAD:	ANSI B1.1
THREAD CLASS SYMBOL, NUT:	2B
THREAD CLASS SYMBOL, STUD BOLT:	2A

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RFQ # 1050249 MAA D/C STUD BOLTS

### *Description:*

STUD BOLTS, ALLOY STEEL, ASTM-A193, GR. B7M,  
WITH TWO SEMI-FINISHED HEAVY-HEX. NUTS  
TO ASTM-A194, GR. 2HM

(CUSTOMS CODE: 728490)

E-63-07

DIA. INCH LENGTH INCH

3/4 X 10.23

NOTE: MANUFACTURER TO PROVIDE MTC INCLUDING  
CHEMICAL COMPOSITION ,PHYSICAL PROPERTIES  
FOR KNPC TO REVIEW AND APPROVE PRIOR TO SHIPMENT.  
PROPER MARKING OF HEAT AND MATERIAL TO BE ENSURED  
ON EVERY MATERIAL.

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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
2	465992	S.BOLTS WITH 2 HEAVY HEX NUTS- 1 1/4" ASME B1.1 (8UN) Dia . x 270 mm LENGTH	MAA Refinery	24	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

REACTOR,SPARE PART,NO MOD,NO MOD

SIZE: S.BOLTS WITH1 1/4" ASME B1.1 (8UN) Dia . x 270 mm LENGTH

MATERIAL: BOLT MATERIAL : ASTM A193 GR.B8M L.1) & NUT MATERIAL : ASTM A194 GR.8M (CL.1)

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### Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

Bolt and Nut ASTM A453 Grade 660 Class C / A453 Grade 660 Class C ASME B1.1 8UN Stud-bolt with two Heavy HEX nuts

THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

SIZE : 1 1/4 INCH  
 LENGTH : 270 MM  
 BOLT MATERIAL : ASTM A193 GR.B8M (CL.1)  
 NUT MATERIAL : ASTM A194 GR.8M (CL.1)

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFACTURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
3	465989	S.BOLTS WITH 2 HEAVY HEX NUTS- 1" ASME B1.1 (8UN) Dia . x 210mm LENGTH	MAA Refinery	16	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:** REACTOR,SPARE PART,NO MOD,NO MOD

SIZE: 1" ASME B1.1 (8UN) Dia . x 210mm LENGTH  
 MATERIAL: BOLT MATERIAL : ASTM A193 GR.B8M L.1) & NUT MATERIAL : ASTM A194 GR.8M (CL.1

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

Bolt and Nut ASTM A453 Grade 660 Class C / A453 Grade 660 Class C ASME B1.1 8UN Stud-bolt with two Heavy HEX nuts

THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

SIZE : 1 INCH  
 LENGTH : 210 MM  
 BOLT MATERIAL : ASTM A193 GR.B8M (CL.1)  
 NUT MATERIAL : ASTM A194 GR.8M (CL.1)

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
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Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
4	465988	S.BOLTS WITH 2 HEAVY HEX NUTS- 2 1/2" ASME B1.1 (8UN) Dia . x 670mm LENGTH	MAA Refinery	12	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:** REACTOR,SPARE PART,NO MOD,NO MOD

MATERIAL: BOLT MATERIAL : ASTM A193 GR.B8M L.1) & NUT MATERIAL : ASTM A194 GR.8M (CL.1  
 SIZE: 2 1/2" ASME B1.1 (8UN) Dia . x 670mm LENGTH

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

Bolt and Nut ASTM A453 Grade 660 Class C / A453 Grade 660 Class C ASME B1.1 8UN Stud-bolt with two Heavy HEX nuts

THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

SIZE : 2 3/4 IN  
 LENGTH : 670 MM  
 BOLT MATERIAL : ASTM A193 GR.B8M (CL.1)  
 NUT MATERIAL : ASTM A194 GR.8M (CL.1)

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
5	465991	S.BOLTS WITH 2 HEAVY HEX NUTS- 3 1/4" ASME B1.1 (8UN) Dia . x 790 mm LENGTH	MAA Refinery	12	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:** REACTOR,SPARE PART,NO MOD,NO MOD

SIZE: 3 1/4" ASME B1.1 (8UN) Dia . x 790 mm LENGTH  
 MATERIAL: BOLT MATERIAL : ASTM A193 GR.B8M L.1) & NUT MATERIAL : ASTM A194 GR.8M (CL.1)

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**Description:**

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SIZE : 3 1/4 INCH  
 LENGTH : 790 MM  
 BOLT MATERIAL : ASTM A193 GR.B8M (CL.1)  
 NUT MATERIAL : ASTM A194 GR.8M (CL.1)

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
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Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
6	465990	S.BOLTS WITH 2 HEAVY HEX NUTS- 3" ASME B1.1 (8UN) Dia . x 670mm LENGTH	MAA Refinery	26	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**

REACTOR,SPARE PART,NO MOD,NO MOD

SIZE: 3" ASME B1.1 (8UN) Dia . x 670mm LENGTH  
 MATERIAL: BOLT MATERIAL : ASTM A193 GR.B8M L.1) & NUT MATERIAL : ASTM A194 GR.8M (CL.1)

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THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES. LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

SIZE : 3 INCH  
LENGTH : 670 MM  
BOLT MATERIAL : ASTM A193 GR.B8M (CL.1)  
NUT MATERIAL : ASTM A194 GR.8M (CL.1)

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFACTURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
7	471573	BOLT SET-STUD+2HN x 5/8 INCH x 11UNC x L115mm	MAA Refinery	8	SET		
		<b>VEC CLASS: 31</b>	<b>VEC SUB CLASS: 10</b>	<b>INSPECTION CLASS: CLASS1</b>			

**Item Specifications:** STUDBOLTS,WITH NUT,NO MOD,NO MOD



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شركة البترول الوطنية الكويتية

إحدى شركات مؤسسة البترول الكويتية  
A Subsidiary of Kuwait Petroleum Corporation

**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

TYPE, NUT:	Hex. Nut
DESIGN SPEC, STUD BOLT:	SA193-B7M
DESIGN SPEC, NUT:	SA194-2HM
SIZE:	5/8 INCH x 11UNC x L115mm
NUMBER, NUTS PER STUD BOLT:	2 Nut
MAT SPEC, STUD BOLT(S):	BOLT SET-STUD
MAT SPEC, NUT(S):	Hex. Nut
LENGTH:	L 115 mm

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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ME-151-103

ME-151-104

ME-152-103

ME-152-104

SECTIONAL DWG/PARTS/LIST NO.: VS2151-301-A-1723 / 18,VS2151-301-A-1743 / 18,VS2151-301-A-1783 / 18,VS2151-301-A-1803 / 18

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RFQ # 1050249 MAA D/C STUD BOLTS

ITEM:BOLT SET-STUD+2HN X 5/8 INCH X 11UNC X L115MM

SIZE: 5/8 INCH X 11UNC X L115MM

MATERIAL STANDARD:SA193-B7M/SA194-2HM

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
8	454735	BOLT WITH 2 HEX NUT M10 x 65 Lg.	MAA Refinery	6	ST		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

*Item Specifications:* BOLTS,HEXAGONHEAD,METRIC,NO MOD

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شركة البترول الوطنية الكويتية

إحدى شركات مؤسسة البترول الكويتية  
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**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

TYPE OF THREAD:	METRIC
TOLERANCES, DIMENSIONAL:	6g
SIZE:	M10
PITCH, THREAD COARSE:	1.5, METRIC COARSE
MATERIAL:	SA 193 GR. B8MA CLASS 1A / SA 194 GR.B8MA
DIMENSIONAL SPEC:	ASME B18.2.3.5M
LENGTH, THREAD:	65
TOLERANCES, THREAD, BOLT:	6g
MAT SPEC, NUT(S):	SA 194 GR.B8MA
MAT SPEC, BOLTING:	SA 193 GR. B8MA CLASS 1A
MANDATORY ADD REQMTS:	MESC SPE 81 -001 & MESC SPE 81-002
LENGTH, UNDER HEAD:	65

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR PRESSURE VESSELS

PROJECT: CLEAN FUELS PROJECT AT MAB

TAG NO: PLEASE SEE ATTACHED PDF FILE

BOLT WITH 2 HEX NUT

M10 X 65 LG.

MATERIAL: SA 193 GR. B8MA CLASS 1A/

SA 194 GR.B8MA

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
9	478177	BOLT,MACHINE:M10 DIA X 712 MM LG, SA193 GR B8M,HD HEX	MAA Refinery	8	ST		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Item Specifications:**                    BOLTS,HEXAGONHEAD,METRIC,NO MOD

MATERIAL:                                SA193-B8M  
 SIZE:                                        M10  
 LENGTH, THREAD:                        712MM  
 LENGTH, UNDER HEAD:                712MM  
 MANDATORY ADD REQMTS:            MTC

**Description:**

BOLT, MACHINE, HEX. HEAD, WITH NUT, METRIC SIZES TO ASTM SA193 GR. B8M  
 COARSE THREAD SERIES.

SIZE: M10

LENGTH: 712 MM.

MATERIAL : ASTM SA193 GR. B8M

NOTE: - MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION,PHYSICAL PROPERTIES AND HEAT TREATMENT  
 REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
10	478176	BOLT,MACHINE:M10 DIA X 731 MM LG, SA193 GR B8M,HD HEX	MAA Refinery	8	ST		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

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RFQ # 1050249 MAA D/C STUD BOLTS

**Item Specifications:** BOLTS,HEXAGONHEAD,METRIC,NO MOD

SIZE: M10  
TYPE OF THREAD: COARSE  
MATERIAL: SA193-B8M  
MANDATORY ADD REQMTS: MTC  
LENGTH, THREAD: 731MM  
LENGTH, UNDER HEAD: 731MM

**Description:**

BOLT, MACHINE, HEX. HEAD, WITH NUT, METRIC SIZES TO ASTM SA193 GR. B8M  
COARSE THREAD SERIES.

SIZE: M10

LENGTH: 731 MM.

MATERIAL : ASTM SA193 GR. B8M

NOTE: - MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION,PHYSICAL PROPERTIES AND HEAT TREATMENT  
REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
11	424003	BOLT,MACHINE:M10 DIA,25 MM LG,ASTM-A193M LV GR B8M,HD HEX	MAA Refinery	1181	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

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**Item Specifications:**                      BOLTS,HEXAGONHEAD,METRIC,NO MOD

SIZE:	M10
MANDATORY ADD REQRMTS:	MTC
MAT SPEC, BOLTING:	ASTM A193
MAT SPEC, NUT(S):	ASTM A194
GRADE:	B8M
LENGTH, THREAD:	25 MM
LENGTH, UNDER HEAD:	25 MM
MATERIAL:	B8M
PITCH, THREAD COARSE:	1.5
DIMENSIONAL SPEC:	ANSI B18.2.3.5 / B18.2.4.1
TYPE OF THREAD:	COARSE

**Description:**

BOLT, MACHINE, HEX. HEAD, WITH NUT, METRIC SIZES TO ASTM A193 GR. B8M & NUTS TO ASTM A194 GR.8M  
 COARSE THREAD SERIES.

DIAMETER	LENGTH IN MM.
M10	25

NOTE:- MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION,PHYSICAL PROPERTIES AND HEAT TREATMENT REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
12	424002	BOLT,MACHINE:M10 DIA,50 MM LG,ASTM-A193M LV GR B8,HD HEX	MAA Refinery	403	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**                      BOLTS,HEXAGONHEAD,METRIC,NO MOD



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RFQ # 1050249 MAA D/C STUD BOLTS

DIMENSIONAL SPEC: ANSI B18.2.3.5 / B18.2.4.1  
MANDATORY ADD REQMTS: MTC  
MAT SPEC, BOLTING: ASTM A193  
MAT SPEC, NUT(S): ASTM A194  
GRADE: B8  
TYPE OF THREAD: COARSE  
LENGTH, UNDER HEAD: 50 MM  
MATERIAL: B8  
PITCH, THREAD COARSE: 1.5  
SIZE: M10  
LENGTH, THREAD: 50 MM

**Description:**

BOLT, MACHINE, HEX. HEAD, WITH NUT, METRIC SIZES TO ASTM A193 GR. B8 & NUTS TO ASTM A194 GR.8  
COARSE THREAD SERIES.

DIAMETER      LENGTH IN MM.  
M10              50

NOTE:- MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION, PHYSICAL PROPERTIES AND HEAT TREATMENT REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
13	478180	BOLT,MACHINE:M20 DIA X 100 MM LG, SA193 GR B8,HD HEX	MAA Refinery	14	EA		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** BOLTS,HEXAGONHEAD,METRIC,NO MOD

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#13  
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Phone : (965) 23881843  
Fax : (965) 23260280

**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

SIZE: M20  
MANDATORY ADD REQMTS: MTC  
LENGTH, UNDER HEAD: 100  
MATERIAL: SA193 GR B8  
LENGTH, THREAD: 100

**Description:**

BOLT, MACHINE, HEX. HEAD, WITH NUT, METRIC SIZES TO ASTM SA193 GR. B8 COARSE THREAD SERIES.

SIZE: M20

LENGTH: 100 MM.

MATERIAL : ASTM SA193 GR. B8

NOTE: - MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION, PHYSICAL PROPERTIES AND HEAT TREATMENT REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
14	469597	BOLT: M12 x 80 NUT, SPRING WASHER, P WASHER: M12	MAA Refinery	91	SET		
		VEC CLASS: 31	VEC SUB CLASS: 10			INSPECTION CLASS: CLASS1	

**Item Specifications:** COMPRESSORS, SPARE PART, NO MOD, NO MOD

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Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

SIZE:	M12 x 80, P WASHER: M12
ITEM TYPE:	BOLT, NUT, SPRING WASHER, P WASHER:
DRAWING NO:	VS2158-213-A-033/ 4
ADDITIONAL INFORMATION:	for NOISE ENCLOSURE SUS304 (A240 304)
MATERIAL:	SUS304 (A240 304)

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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C-151/152-141		
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SECTIONAL DWG/PARTS/LIST NO.: VS2158-213-A-033/ 4

ITEM:BOLT: M12 X 80 ,NUT, SPRING WASHER, P WASHER: M12-FOR NOISE ENCLOSURE SUS304 (A240 304)

SIZE: M12 X 80 ,

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**Kuwait National Petroleum Company**  
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**RFQ # 1050249    MAA D/C STUD BOLTS**

MATERIAL STANDARD: JIS G 4304  
 NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
15	448397	HEX BOLT / 2 HEX. NUTS, M16 x 40L	MAA Refinery	303	ST		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                      BOLTS,HEXAGONHEAD,METRIC,NO MOD

MAT SPEC, NUT(S):                      ASTM A 193/ ASME SA 193

GRADE:                                        310

LENGTH, THREAD:                        40 MM

MATERIAL:                                  310

SIZE:    M16

MAT SPEC, BOLTING:                     ASTM A 193/ ASME SA 193

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## Kuwait National Petroleum Company

Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

SPARE PARTS FOR FIRED HEATERS  
 PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
H-141-201		

HEX BOLT / 2 HEX. NUTS, WITH PLAIN WASHER  
 SIZE: M16 x 40L  
 MATERIAL : TP 310

STANDARD :ASTM A 193/ ASME SA 193

**NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT**

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
16	448396	HEX BOLT / 2 HEX. NUTS, M16 x 50L	MAA Refinery	50	ST		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    BOLTS,HEXAGONHEAD,METRIC,NO MOD

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PROCUREMENT-MAA

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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

MAT SPEC, BOLTING: ASTM A 193/ ASME SA 193  
MAT SPEC, NUT(S): ASTM A 193/ ASME SA 193  
GRADE: 310  
LENGTH, THREAD: 50MM  
MATERIAL: TP 310  
TYPE OF THREAD: M PROFILE  
SIZE: M16

**Description:**

SPARE PARTS FOR FIRED HEATERS  
PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
H-141-401		

HEX BOLT / 2 HEX. NUTS, WITH PLAIN WASHER  
SIZE: M16 x 50L  
MATERIAL : TP 310

STANDARD :ASTM A 193/ ASME SA 193

**NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT**

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
17	465993	HEX BOLT DIN 933 WITH 2 HEX NUT DIN 934 M12 X 65 B8C-GR8C	MAA Refinery	88	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

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**Kuwait National Petroleum Company**  
 Request For Quotation



**RFQ # 1050249 MAA D/C STUD BOLTS**

**Item Specifications:** REACTOR,SPARE PART,NO MOD,NO MOD

SIZE: M12 X 65  
 MATERIAL: ASTM A194 B8CA

**Description:**

SIZE : M12  
 LENGTH : 65 MM

MATERIAL : ASTM A194 B8CA (B8C-GR8C)

- NOTE:-
- VENDOR SHALL SUBMIT MANUFACTURE'S QUOTATION ALONG WITH OFFER.
  - ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.
  - THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
18	404281	Hex. B/N, M16 x L75/ 316L S.S	MAA Refinery	10	ST		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Manufacturer: GS ENTEC CORP., SOUTH KOREA.,**

**Item Specifications:** VESSELS,SPARE PART,NO MOD,NO MOD

DRAWING NO: VP-2025JV0S10031-V-116-102-D15-007, VP-2025JV0S10031-V-116-103-D15-018, VP-2025JV0S10031-V-216-105-D15-006  
 MATERIAL: 316 L SS  
 SIZE: M 16  
 ITEM TYPE: HEXA BOLT AND NUT  
 EQPT TYPE: COLUMN



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## Kuwait National Petroleum Company

Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

SPARE PARTS FOR COLUMNS  
 PROJECT: CLEAN FUELS PROJECT AT MAB

TAG NO	EQUIP SERIAL NO
V-116-102	MbCO081-003
V-116-103	MbCO081-004
V-216-102	MbCO081-006
V-216-103	MbCO081-007
V-216-105	MbCO081-009

SECTIONAL DWG/PARTS/LIST NO.:  
 VP-2025JV0S10031-V-116-102-D15-007/ N2-7  
 VP-2025JV0S10031-V-116-103-D15-018/ N3-7  
 VP-2025JV0S10031-V-216-102-D15-007/ N2-7  
 VP-2025JV0S10031-V-216-103-D15-018/ N3-7  
 VP-2025JV0S10031-V-216-105-D15-006/ N3-7  
 VP-2025JV0S10031-V-216-105-D15-027/ N2-7

HEX BOLT /NUT  
 SIZE: M16 X L75,  
 MATERIAL: 316L S.S

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
19	471519	HEX. BOLT, M12 x 45L	MAA Refinery	8	EA		
<b>VEC CLASS: 31</b>		<b>VEC SUB CLASS: 10</b>		<b>INSPECTION CLASS: CLASS1</b>			

**Item Specifications:**                    BOLTS,HEXAGONHEAD,METRIC,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

MAT SPEC, BOLTING:

HEX. BOLT,

SIZE:

M12 x 45L

GRADE:

ASME GRADE 316L

MATERIAL:

316L S.S

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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-136-101		
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SECTIONAL DWG/PARTS/LIST NO.: VS2151-202-A-0019/ 17

ITEM:HEX. BOLT, 316L S.S

SIZE: M12 X 45L

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RFQ # 1050249 MAA D/C STUD BOLTS

MATERIAL STANDARD:ASME GRADE 316L

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
20	471504	HEX.BOLT, M12 x 40L	MAA Refinery	46	EA		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** BOLTS,HEXAGONHEAD,METRIC,NO MOD  
SIZE: M12 x 40L  
MATERIAL: 304L S.S  
MAT SPEC, BOLTING: HEX.BOLT,

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-156-201AB

SECTIONAL DWG/PARTS/LIST NO.: VS2151-201-A-0708/N1-12

ITEM:HEX.BOLT, -304L S.S

SIZE: M12 X 40L

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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

MATERIAL STANDARD:MANUFACTURER'S STANDARD

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
21	471510	HEX.BOLT, M12 x 50L	MAA Refinery	17	EA		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** BOLTS,HEXAGONHEAD,METRIC,NO MOD  
MAT SPEC, BOLTING: HEX.BOLT,  
MATERIAL: 316L S.S  
SIZE: M12 x 50L

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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

**TAG NO.**            **EQUIP. MODEL NO.**            **EQUIP SL. NO.**

V-186-203

SECTIONAL DWG/PARTS/LIST NO.: VS2151-201-A-0907/I2-13,VS2151-201-A-0908/-14

ITEM:HEX.BOLT, -316L S.S

SIZE: M12 X 50L

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## Kuwait National Petroleum Company

Request For Quotation

شركة البترول الوطنية الكويتية

إحدى شركات مؤسسة البترول الكويتية  
A Subsidiary of Kuwait Petroleum Corporation

**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

MATERIAL STANDARD:MANUFACTURER'S STANDARD

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
22	475480	HOLDING STUD BOLT, 1 INCH X 8UN X 110 LG (HEX_HD_BOLT) / WASHER , OD 54 mm X ID 27 mm Thickness 3mm	MAA Refinery	16	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

BOLTS,NO MOD,NO MOD,NO MOD

MATERIAL: SA-193-GR B16 / AISI304

TYPE: Hex bolt with washer

LENGTH: HEX BOLT 1 INCH X 8UN X 110 LG WASHER , OD 54 mm X ID 27 mm Thickness 3mm





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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

M10 X 1.5 X 30 MM LONG BOLT WITH NUT, SS 310

MACHINE BOLT WITH ONE NUT

MATERIAL: SS 310

SIZE: M10

PITCH: 1.5 MM

LENGTH BELOW HEAD: 30 MM

BOLT/NUT STANDARD: ASME B18.2.3.5M/ ASME B18.2.4.1M

**NOTES:**

1) VENDOR TO SUBMIT MTC TO KNPC FOR APPROVAL PRIOR SHIPMENT.

2) MATERIAL WILL BE INSPECTED IN KNPC WAREHOUSE UPON RECEIPT (PMI WILL BE CARRIED OUT) AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION.

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
24	408108	M12 X 80 Lg. HEX. BOLT	MAA Refinery	18	EA		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** BOLTS,HEXAGONHEAD,METRIC,NO MOD

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**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

SIZE:	12
COATING:	Lubricant
DIMENSIONAL SPEC:	ASME B18.2.3.6M
FINISH, BEARING FACE:	Plain
MANDATORY ADD REQMTS:	N/A
MAT SPEC, BOLTING:	SA-193
MAT SPEC, NUT(S):	SA-194
TOLERANCES, THREAD, BOLT:	ASME B18.2.3.6M
TOLERANCES, THREAD, NUT:	ASME B18.2.4.6M
GRADE:	B8M
LENGTH, THREAD:	80
LENGTH, UNDER HEAD:	0
MATERIAL:	SA-193 Gr.B8M
PITCH, THREAD COARSE:	Metric
TOLERANCES, DIMENSIONAL:	ASME B18.2.3.6M
TYPE OF THREAD:	Metric

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR VESSELS  
PROJECT: CLEAN FUELS PROJECT AT MAB

TAG NO SERIAL NO  
V-212-405 V-1022

SECTIONAL DWG/VENDOR DRAWING ; VP-2025JV0C40029-V-212-405-D15-001

M12 X 80 LG. HEX. BOLT  
SIZE: M12 X 80 MM LONG  
MATERIAL: A-193 GR.B8M  
TOLERANCES, THREAD, BOLT, ASME B18.2.3.6M, THEREAD LENGTH : 60 MM

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
25	467325	M-STUD BOLT.NUT(COVER) SET SA193-B7/SA194-2H, M12 x 50L, M12 x 70L	MAA Refinery	2	ST		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** STUB-ENDS,PIPE,THERMOPLASTIC,NO MOD  
MATERIAL: SA193-B7/SA194-2H  
TYPE: M-STUD BOLT.NUT(COVER) SET  
SIZE: M12 x 50L M12 x 70L

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

### Description:

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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136-PSV-1025A		
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136-PSV-1025B		
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SECTIONAL DWG/PARTS/LIST NO.: VS216G-501-A-010/PAGE 110,112/ 15,16

ITEM: M-STUD BOLT.NUT(COVER) SET,SA193-B7/SA194-2H

SIZE: M12 X 50L,M12 X 70L

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## Kuwait National Petroleum Company

Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

MATERIAL STANDARD: MANUFACTURER STANDARD  
 NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
26	475479	PARTITION COVER BOLTING, 1/2 INCH UNC X 65 LG (HEX_HD_BOLT) WITH NUT	MAA Refinery	130	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                      BOLTS,NO MOD,NO MOD,NO MOD

LENGTH:                                      1/2 INCH UNC X 65 LG  
 MATERIAL:                                    SA-193-GR B8CA-CL 1A  
 TYPE:    HEX BOLT WITH NUT

**Description:**

SPARE PARTS FOR BREECH LOCK HEAT EXCHANGER

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
E-141-202 & 204	N/A	

ITEM: HEX\_HD\_BOLT WITH NUT  
 SIZE: 1/2 INCH UNC X 65 MM LG

STANDARD: SA-193-GR B8CA-CL 1A

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

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## Kuwait National Petroleum Company

Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
27	475471	PARTITION COVER BOLTING 1/2" UNC X 75 LG (HEX_HD_BOLT) WITH NUT	MAA Refinery	240	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**

BOLTS,NO MOD,NO MOD,NO MOD

LENGTH: 75MM  
 TYPE: HEX BOLT WITH NUT  
 DIAMETER: 1/2 inch  
 MATERIAL: SA-193-GR B8CA-CL 1A / SA194 GR8CA

**Description:**

SPARE PARTS FOR BREECH LOCK HEAT EXCHANGER

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
E-141-201 & 203	N/A	

ITEM: HEX\_HD\_BOLT WITH NUT  
 SIZE: 1/2 INCH UNC X 75MM LG

MATERIAL: HEX BOLT -SA-193-GR B8CA-CL 1A  
 NUT - SA194 GR8CA

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
28	473050	STUD BOLT / 2 HEAVY HEX. NUTS, 1 1/2 inch-8UN 415L	MAA Refinery	15	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

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Phone : (965) 23881843  
Fax : (965) 23260280

## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

<b>Item Specifications:</b>	STUDBOLTS, WITH NUT, NO MOD, NO MOD
DESIGN SPEC, STUD BOLT:	ASME SA193-B7
DESIGN SPEC, NUT:	ASME SA194-2H
SIZE:	1 1/2 inch-8UN 415L
TYPE, NUT:	HEAVY HEX. NUTS
MAT SPEC, STUD BOLT(S):	STUD BOLT
LENGTH:	415 L
NUMBER, NUTS PER STUD BOLT:	2



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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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E-83-410 A-D

SECTIONAL DWG/PARTS/LIST NO.: VS2153-R01-A-032/ 4-3

ITEM: STUD BOLT / 2 HEAVY HEX. NUTS, ,

SIZE: 1 1/2 INCH-8UN 415L

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## Kuwait National Petroleum Company

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**RFQ # 1050249    MAA D/C STUD BOLTS**

MATERIAL STANDARD: ASME SA193-B7 / ASME SA194-2H

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
29	465595	STUD BOLT / 2 HEAVY HEX. NUTS, 1 INCH-8UNC x 300L	MAA Refinery	88	ST		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                      STUDBOLTS, WITH NUT, NO MOD, NO MOD

MAT SPEC, STUD BOLT(S):                      ASME SA193-B7 / SA194-2H

THREAD LENGTH:                                      300 MM L

TYPE, NUT:    Hex Nut

MAT SPEC, NUT(S):                                      ASME SA193-B7 / SA194-2H

SIZE:    1 INCH-8UNC x 300L

NUMBER, NUTS PER STUD BOLT:                      2

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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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E-107-111A

E-107-111B

SECTIONAL DWG/PARTS/LIST NO.: VG2153-302-A-1054/ 17

ITEM: STUD BOLT / 2 HEAVY HEX. NUTS

SIZE: 1INCH-8UNC X 300L

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**Kuwait National Petroleum Company**  
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**RFQ # 1050249 MAA D/C STUD BOLTS**

MATERIAL STANDARD: ASME SA193-B7 / SA194-2H

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
30	471889	STUD BOLT / 2 HEAVY NUT 1-7/8 INCH-8UN x L350	MAA Refinery	30	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:** STUDBOLTS,WITH NUT,NO MOD,NO MOD

LENGTH: L 350 mm  
 NUMBER, NUTS PER STUD BOLT: 2  
 TYPE, NUT: Heavy Nut  
 MAT SPEC, NUT(S): HEAVY NUT  
 DESIGN SPEC, NUT: SA194-2H  
 SIZE: 1-7/8 INCH-8UN x L350  
 DESIGN SPEC, STUD BOLT: SA193-B7  
 MAT SPEC, STUD BOLT(S): STUD BOLT

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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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D-151/152-126		
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D-151/152-125		
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SECTIONAL DWG/PARTS/LIST NO.: VS2156-002-A-0306,/A1/5,VS2156-002-A-0905,/A1/5

ITEM:STUD BOLT / 2 HEAVY NUT, -

SIZE: 1-7/8 INCH-8UN X L350

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249    MAA D/C STUD BOLTS

MATERIAL STANDARD:SA193-B7,SA194-2H

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
31	465645	STUD BOLT / HEAVY HEX NUTS 1 INCH x 190mmL, 8UNC	MAA Refinery	8	ST		
<b>VEC CLASS: 31</b>		<b>VEC SUB CLASS: 10</b>		<b>INSPECTION CLASS: CLASS1</b>			

**Item Specifications:**                      STUDBOLTS,WITH NUT,NO MOD,NO MOD

LENGTH:                                      190 MM L

MAT SPEC, STUD BOLT(S):                ASTM A193 Gr.B7 / A194 Gr. 2H

THREAD CLASS SYMBOL, NUT:            8UNC

TYPE, NUT:                                    HEX NUT

THREAD LENGTH:                            190mm L

NUMBER, NUTS PER STUD BOLT:        2

SIZE:    1 INCH x 190mm L

MAT SPEC, NUT(S):                        ASTM A193 Gr.B7 / A194 Gr. 2H

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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CTMS-161-1002		
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SECTIONAL DWG/PARTS/LIST NO.: FASTENERS CATALOG

ITEM: STUD BOLT / HEAVY HEX NUTS, 8UNC UNIT NUMBER: 161

SIZE: 1 INCH X 190MM L

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**Kuwait National Petroleum Company**  
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RFQ # 1050249    MAA D/C STUD BOLTS

MATERIAL STANDARD: ASTM A193 GR.B7 / A194 GR. 2H  
 NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
32	478178	STUD BOLT FULL THREADED M8 DIA X 80 MM LG, SA193 GR 8M	MAA Refinery	134	ST		
<b>VEC CLASS: 31</b>		<b>VEC SUB CLASS: 10</b>		<b>INSPECTION CLASS: CLASS1</b>			

**Item Specifications:**                    BOLTS,NO MOD,NO MOD,NO MOD  
 LENGTH:                                    80MM  
 DIAMETER:                                 M8  
 TYPE:                                        STUD BOLT  
 MATERIAL:                                 ASTM A193 GR B8M

**Description:**  
 STUD BOLT FULL THREADED WITH HEX NUT, M8 X 80L, MATERIAL: ASTM A193 GR B8M  
 SIZE: M8 X 80MM  
 MATERIAL: ASTM A193 GR B8M  
 THREAD LENGTH: FULL THREAD

VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
33	471604	STUD BOLT/HEAVY HEX. 2NUTS 1-1/4 INCH-8UN x 205L	MAA Refinery	12	SET		
<b>VEC CLASS: 31</b>		<b>VEC SUB CLASS: 10</b>		<b>INSPECTION CLASS: CLASS1</b>			

**Item Specifications:**                    STUDBOLTS,WITH NUT,NO MOD,NO MOD



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**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

SIZE:	1-1/4 INCH-8UN x 205L
DESIGN SPEC, STUD BOLT:	STUD BOLT
MAT SPEC, STUD BOLT(S):	ASME SA193-B7
DESIGN SPEC, NUT:	HEAVY HEX. 2NUTS
MAT SPEC, NUT(S):	ASME SA194-2H
NUMBER, NUTS PER STUD BOLT:	2
TYPE, NUT:	STUD BOLT/HEAVY HEX. 2NUTS

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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-83-001		
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SECTIONAL DWG/PARTS/LIST NO.: VS2151-R03-A-0504/N11-3

ITEM:STUD BOLT/HEAVY HEX. 2NUTS

SIZE: 1-1/4 INCH-8UN X 205L

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## Kuwait National Petroleum Company

Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

MATERIAL STANDARD:ASME SA193-B7/,ASME SA194-2H

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
34	471499	STUD BOLT/HEAVY HEX. 2NUTS 1 1/2 INCH-8UN x 245L	MAA Refinery	12	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

<b>Item Specifications:</b>	STUDBOLTS,WITH NUT,NO MOD,NO MOD
SIZE:	1 1/2 INCH-8UN x 245L
DESIGN SPEC, NUT:	ASME SA194-2HM
DESIGN SPEC, STUD BOLT:	ASME SA193-B7M
TYPE, NUT:	Hex Nut
LENGTH:	245L
MAT SPEC, NUT(S):	HEAVY HEX. NUTS
MAT SPEC, STUD BOLT(S):	STUD BOLT
NUMBER, NUTS PER STUD BOLT:	2

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-153-101

V-153-102

V-186-201

V-186-202

V-186-203

SECTIONAL DWG/PARTS/LIST NO.: VS2151-201-A-0604/-6,VS2151-201-A-0605/-6,VS2151-201-A-0654/-6,VS2151-201-A-0655/-6,VS2151-201-A-0804/-6,VS2151-201-A-0825/-6,VS2151-201-

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**RFQ # 1050249    MAA D/C STUD BOLTS**

A-0854/-6,VS2151-201-A-0855/-6,VS2151-201-A-0878/-6,VS2151-201-A-0904/-6,VS2151-201-A-0905/-6,VS2151-201-A-0934/-6

ITEM:STUD BOLT/HEAVY HEX. 2NUTS

SIZE: 1 1/2 INCH-8UN X 245L

MATERIAL STANDARD:ASME SA193-B7M/ASME SA194-2HM

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
35	471494	STUD BOLT/HEAVY HEX. 2NUTS 1 1/2 INCH-8UN x 250L	MAA Refinery	24	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDBOLTS,WITH NUT,NO MOD,NO MOD

NUMBER, NUTS PER STUD BOLT:                    2  
 LENGTH:                    250 L  
 MAT SPEC, NUT(S):                    HEAVY HEX. NUT  
 DESIGN SPEC, NUT:                    ASME SA194-2HM  
 DESIGN SPEC, STUD BOLT:                    ASME SA193-B7M  
 MAT SPEC, STUD BOLT(S):                    STUD BOLT  
 SIZE:                    1 1/2 INCH-8UN x 250L

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-136-103

V-136-104

V-136-301

V-136-302

V-136-303

V-136-304

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RFQ # 1050249 MAA D/C STUD BOLTS

SECTIONAL DWG/PARTS/LIST NO.: VS2151-201-A-0054/-6,VS2151-201-A-0055/-6,VS2151-201-A-0104/-5,VS2151-201-A-0128/-6,VS2151-201-A-0154/-6,VS2151-201-A-0204/-6,VS2151-201-A-0254/-5,VS2151-201-A-0275/-6

ITEM:STUD BOLT/HEAVY HEX. 2NUTS -

SIZE: 1 1/2 INCH-8UN X 250L

MATERIAL STANDARD:ASME SA193-B7M/ASME SA194-2HM

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
36	471602	STUD BOLT/HEAVY HEX. 2NUTS 1-1/4 INCH-8UN x 180L	MAA Refinery	12	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

*Item Specifications:* STUDBOLTS,WITH NUT,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

DESIGN SPEC, STUD BOLT:	STUD BOLT
TYPE, NUT:	STUD BOLT/HEAVY HEX. 2NUTS
MAT SPEC, NUT(S):	ASME SA194-2H
MAT SPEC, STUD BOLT(S):	ASME SA193-B7
NUMBER, NUTS PER STUD BOLT:	2
SIZE:	1-1/4 INCH-8UN x 180L
DESIGN SPEC, NUT:	HEAVY HEX. 2NUTS



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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-46-007/008/009

V-46-014

V-46-029

SECTIONAL DWG/PARTS/LIST NO.: VS2151-R03-A-0053/M1A,M1B-2,VS2151-R03-A-0153/M1,M2-2,VS2151-R03-A-0403/M1,M2-2

ITEM:STUD BOLT/HEAVY HEX. 2NUTS

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## Kuwait National Petroleum Company

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**RFQ # 1050249    MAA D/C STUD BOLTS**

SIZE: 1-1/4 INCH-8UN X 180L

MATERIAL STANDARD:ASME SA193-B7/,ASME SA194-2H

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
37	399052	STUD BOLT: DIA 5/8 INCH X 350 MM LENGTH, BOLT MATERIAL ASTM A193 GR.B7, TWO SEMI FINISHED HEAVY HEX. NUTS TO ASTM A194 GR. 2H	MAA Refinery	112	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                      STUDBOLTS,WITH NUT,NO MOD,NO MOD

MAT SPEC, STUD BOLT(S):	ASTM A193 GR B7
MAT SPEC, NUT(S):	ASTM A194 GR.2H
TYPE, NUT:	HEAVY HEXOGONAL (SEMI FINISHED)
NUMBER, NUTS PER STUD BOLT:	2
THREAD LENGTH:	FULL LENGTH
LENGTH:	350 MM
SIZE:	DIA 5/8 INCH

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## Kuwait National Petroleum Company

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT, ALLOY STEEL TO ASTM A193 GR B7 WITH TWO SEMI FINISHED HEAVY HEX. NUTS TO ASTM A194 GR.2H THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUDS AND CLASS 2B FIT FOR NUTS. STUD BOLT SIZE 1 INCH AND SMALLER IN DIA SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1-1/8 INCH AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES. LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH IN
IN INCHES	MILLIMETRES
5/8	350

NOTE:- MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION, PHYSICAL PROPERTIES AND HEAT TREATMENT REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
38	425174	STUD BOLTS 1 7/8 IN DIA., 450 MM LONG A193 B16 / A194-4 WITH 2 HEAVY NUTS	MAA Refinery	51	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDBOLTS,WITH NUT,NO MOD,NO MOD

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Phone : (965) 23881843  
Fax : (965) 23260280

## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

MAT SPEC, STUD BOLT(S):	ASTM A193
THREAD LENGTH:	FULLY THREADED
NUMBER, NUTS PER STUD BOLT:	2
THREAD CLASS SYMBOL, NUT:	2B
MAT SPEC, NUT(S):	ASTM A194
TYPE OF THREAD:	UN SERIES, 8 TPI
DESIGN SPEC, THREAD:	ANSI B1.1
SIZE:	1 7/8 IN
LENGTH:	450 MM
THREAD CLASS SYMBOL, STUD BOLT:	2A
GRADE:	A193 B16 / A194-4
DESIGN SPEC, NUT:	ASME / ANSI B18.2.2
DESIGN SPEC, STUD BOLT:	ASME / ANSI B18.2.1
MANDATORY ADD REQMTS:	MTC

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RFQ # 1050249 MAA D/C STUD BOLTS

### Description:

STUD BOLT , 8 UN WITH 2 HEAVY NUT & 2 WASHERS

THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

SIZE : 1 7/8 IN  
LENGTH : 450 MM  
BOLT MATERIAL : A193 B16  
NUT MATERIAL : A194-4

#### NOTE:-

- 1.VENDOR SHALL SUBMIT MANUFACTURE'S QUOTATION ALONG WITH OFFER.
- 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
- 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
- 4.STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.
- 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS.

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
39	478174	STUD BOLTS WITH 2 HEX NUTS- 1 1/2" ASME B1.1 (8UN) Dia . x 235 mm LENGTH	MAA Refinery	20	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

### Item Specifications:

STUDBOLTS, WITH NUT, NO MOD, NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

NUMBER, NUTS PER STUD BOLT:	2
MAT SPEC, NUT(S):	ASTM A194 GR 2H (HOT DIP GALVA)
MAT SPEC, STUD BOLT(S):	ASTM A193 GR.B7 (HOT DIP GALVA)
SIZE:	1 1/2 INCH
THREAD LENGTH:	FULL THREAD
LENGTH:	235 MM

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

STUD BOLTS WITH 2 HEX NUTS- 1 1/2" ASME B1.1 (8UN) Dia . x 235 mm LENGTH

SIZE : 1 1/2 INCH  
LENGTH : 235 MM  
BOLT MATERIAL: ASTM A193 GR.B7 (HOT DIP GALVA)  
NUT MATERIAL: ASTM A194 GR 2H (HOT DIP GALVA)  
THREAD LENGTH: FULL THREAD

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.

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**RFQ # 1050249    MAA D/C STUD BOLTS**

4. STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.  
 5. THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
40	478142	STUD BOLTS WITH 2 HEAVY HEX NUTS- 1 1/2" ASME B1.1 (8UN) Dia . x 260 mm LENGTH	MAA Refinery	55	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

<b>Item Specifications:</b>	STUDBOLTS, WITH NUT, NO MOD, NO MOD
TYPE, NUT:	HEX NUT
LENGTH:	260MM
MAT SPEC, NUT(S):	SA 194-2HM
NUMBER, NUTS PER STUD BOLT:	2
SIZE:	1 1/2 INCH
THREAD LENGTH:	FULL THREADED
MAT SPEC, STUD BOLT(S):	SA193-B7M



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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

STUD BOLTS WITH 2 HEAVY HEX NUTS- 1 1/2" ASME B1.1 (8UN) Dia . x 260 mm LENGTH

SIZE : 1 1/2 INCH  
LENGTH : 260 MM  
BOLT MATERIAL: ASTM A193 GR.B7M  
NUT MATERIAL: ASTM A194 GR 2HM

**NOTE:-**

- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
- 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
- 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
- 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
- 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
41	478141	STUD BOLTS WITH 2 HEAVY HEX NUTS- 2 1/4" ASME B1.1 (8UN) Dia . x 490mm LENGTH	MAA Refinery	7	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** STUDBOLTS,WITH NUT,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

MAT SPEC, STUD BOLT(S):	A193-B7M
TYPE, NUT:	HEX NUT
SIZE:	2 1/4
LENGTH:	490MM
NUMBER, NUTS PER STUD BOLT:	2
MAT SPEC, NUT(S):	A194 GR 2HM
THREAD LENGTH:	FULL THREADED

**Description:**

STUD BOLTS WITH 2 HEAVY HEX NUTS- 2 1/4" ASME B1.1 (8UN) Dia . x 490mm LENGTH

SIZE : 2 1/4 INCH  
LENGTH : 490 MM  
BOLT MATERIAL: ASTM A193 GR.B7M  
NUT MATERIAL: ASTM A194 GR 2HM

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

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شركة البترول الوطنية الكويتية

إحدى شركات مؤسسة البترول الكويتية  
A Subsidiary of Kuwait Petroleum Corporation

**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
42	478143	STUD BOLTS WITH 2 HEAVY HEX NUTS- 2 1/4" ASME B1.1 (8UN) Dia . x 470mm LENGTH	MAA Refinery	7	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDBOLTS,WITH NUT,NO MOD,NO MOD

LENGTH: 470  
THREAD LENGTH: FULL LENGTH  
SIZE: 2 1/4 INCH  
MAT SPEC, STUD BOLT(S): A193-B7M  
MAT SPEC, NUT(S): A194 GR 2HM

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLTS WITH 2 HEAVY HEX NUTS- 2 1/4" ASME B1.1 (8UN) Dia . x 470mm LENGTH

SIZE : 2 1/4 INCH  
 LENGTH : 470 MM  
 BOLT MATERIAL: ASTM A193 GR.B7M  
 NUT MATERIAL: ASTM A194 GR 2HM

**NOTE:-**

- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
- 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
- 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
- 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
- 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
43	478175	STUD BOLTS WITH 2 HEAVY HEX NUTS- 3" ASME B1.1 (8UN) Dia . x 750mm LENGTH	MAA Refinery	12	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDBOLTS,WITH NUT,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

SIZE:	3 INCH
MAT SPEC, STUD BOLT(S):	ASTM A453 Grade 660 Class C
NUMBER, NUTS PER STUD BOLT:	2
MAT SPEC, NUT(S):	A453 Grade 660 Class C
LENGTH:	750 MM

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

STUD BOLTS WITH 2 HEAVY HEX NUTS- 3" ASME B1.1 (8UN) Dia . x 750mm LENGTH

SIZE : 3 INCH  
LENGTH : 750 MM  
BOLT MATERIAL: ASTM A453 Grade 660 Class C  
NUT MATERIAL: ASTM 453 Grade 660 Class C  
THREAD LENGTH: FULL THREAD

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.

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RFQ # 1050249    MAA D/C STUD BOLTS

4. STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.  
 5. THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
44	395672	STUD BOLTS, 1-7/8 IN. DIA. X 470 MM LONG, SA193 B7, W/ NUTS A194 2H	MAA Refinery	49	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

<b>Item Specifications:</b>	STUDBOLTS, WITH NUT, NO MOD, NO MOD
LENGTH:	470 MM
TYPE, NUT:	HEAVY HEX
SIZE:	1- 7/8 INCH
TYPE OF THREAD:	UN SERIES, 8 TPI
THREAD LENGTH:	470 MM
THREAD CLASS SYMBOL, STUD BOLT:	2A
THREAD CLASS SYMBOL, NUT:	2B
DESIGN SPEC, STUD BOLT:	ASME / ANSI B18.2.1
MANDATORY ADD REQMTS:	MTC
NUMBER, NUTS PER STUD BOLT:	2
DESIGN SPEC, NUT:	ASME / ANSI B18.2.2
MAT SPEC, STUD BOLT(S):	A193 B7
DESIGN SPEC, THREAD:	ANSI B1.1
MAT SPEC, NUT(S):	A194 2H

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PART OR EX-86-102

STUD BOLT TO ASTM-A193 GR. B7 STUD BOLTS, 1-7/8 IN. DIA X 470 MM LONG, FULLY THREADED, WITH TWO (PER STUD BOLT) HEAVY HEX. HEAD NUTS TO ASTM A194 GR.4.

THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD BOLTS AND CLASS 2B FIT FOR NUTS. STUD BOLTS SHALL HAVE THE 8 PITCH THREAD SERIES. LENGTH OF STUD BOLT SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.  
 STUD BOLTS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

NOTES TO VENDOR:

1. VENDOR SHALL SUBMIT MANUFACTURE'S QUOTATION ALONG WITH OFFER.
2. CERTIFICATE OF CONFORMITY TO BE SUBMITTED SHALL BE FORWARDED TO KNPC BY VENDOR PRIOR TO SHIPMENT OF MATERIAL

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
45	388793	STUD BOLTS: 1-1/2 INCH DIA X 11-5/8 INCH LONG, ASTM A 193 GR B16 WITH 2 HEAVY HEXAGONAL NUTS OF ASTM A 194 GR 4, ANSI B18.2.1 / B18.2.2	MAA Refinery	20	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDBOLTS, WITH NUT, NO MOD, NO MOD

MAT SPEC, STUD BOLT(S): ASTM A 193 GR B16  
 DESIGN SPEC, NUT: ANSI B18.2.2  
 DESIGN SPEC, STUD BOLT: ANSI B18.2.1  
 LENGTH: 11-5/8 INCH  
 MAT SPEC, NUT(S): ASTM A 194 GR 4  
 NUMBER, NUTS PER STUD BOLT: 2  
 SIZE: 1-1/2 INCH DIA



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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

TECHNICAL REQUIREMENTS

1. MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION, PHYSICAL PROPERTIES AND HEAT TREATMENT REPORT FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT
2. PMI SHALL BE PERFORMED ON 5% OF TOTAL QUANTITY BY MANUFACTURER AND REPORT SHALL BE SUBMITTED ALONG WITH MTC.
3. THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED / PMI CARRIED OUT BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS.

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
46	061312	STUD:BOLT,1-3/4 IN DIA,THD 8 UN 2A,23 IN LG,ASTM-A193,GR B7	MAA Refinery	30	EACH		
VEC CLASS: 31		VEC SUB CLASS: 10		INSPECTION CLASS: CLASS1			

**Item Specifications:** STUDBOLTS,WITH NUT,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

GRADE: BOLT: B7 / NUT: 2H  
 LENGTH: 23 IN  
 MAT SPEC, NUT(S): ASTM A194  
 MAT SPEC, STUD BOLT(S): ASTM A193  
 NUMBER, NUTS PER STUD BOLT: 2  
 SIZE: 1-3/4 IN  
 THREAD LENGTH: FULLY THREADED  
 TYPE OF THREAD: UN SERIES, 8 TPI  
 TYPE, NUT: HEAVY HEXOGONAL (SEMI FINISHED)  
 DESIGN SPEC, NUT: ASME / ANSI B18.2.2  
 DESIGN SPEC, STUD BOLT: ASME / ANSI B18.2.1 LV  
 DESIGN SPEC, THREAD: ANSI B1.1  
 INSPECTION, CERTIF: TO BE PROVIDED BY THE VENDOR  
 MANDATORY ADD REQMTS: KN ENGG 50P1 REV 1  
 THREAD CLASS SYMBOL, NUT: 2B  
 THREAD CLASS SYMBOL, STUD BOLT: 2A

**Description:**

Add reqmts: KN ENGG 50P1 REV 1  
 Design spec, nut: ASME B18.2.2  
 Design spec, stud bolt: ASME B18.2.1 LV  
 Inspection, certif: TO BE PROVIDED BY THE VENDOR  
 Mat spec, nut(s): ASTM A194 GRADE 2H  
 Number, nuts per stud bolt: 2  
 Thread class symbol, nut: 2B  
 Type, nut: HEAVY HEX,SEMI FINISHED

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
47	084694	STUD:BOLT,1-3/8 IN DIA,THD 8 UN 2A,24 IN LG,ALLOY STEEL,ASTM-A193,GR B7	MAA Refinery	20	EACH		

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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDBOLTS, WITH NUT, NO MOD, NO MOD

GRADE:	BOLT: B7 / NUT: 2H
LENGTH:	24 IN
MAT SPEC, NUT(S):	ASTM A194
MAT SPEC, STUD BOLT(S):	ASTM A193
NUMBER, NUTS PER STUD BOLT:	2
SIZE:	1-3/8 IN
THREAD LENGTH:	FULLY THREADED
TYPE OF THREAD:	UN SERIES, 8 TPI
TYPE, NUT:	HEAVY HEXOGONAL (SEMI FINISHED)
DESIGN SPEC, NUT:	ASME / ANSI B18.2.2
DESIGN SPEC, STUD BOLT:	ASME / ANSI B18.2.1
DESIGN SPEC, THREAD:	ANSI B1.1
MANDATORY ADD REQMTS:	LENGTH OF STUD SHALL BE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS
THREAD CLASS SYMBOL, NUT:	2B
THREAD CLASS SYMBOL, STUD BOLT:	2A

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RFQ # 1050249 MAA D/C STUD BOLTS

### *Description:*

STUD BOLT, ALLOY STEEL, TO ASTM-A193 GR.B7, WITH TWO SEMI FINISHED HEAVY HEX. NUTS TO ASTM-A194 GR.2H THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUDS AND CLASS 2B FIT FOR NUTS. STUD BOLT SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES. LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES

1.3/8	24
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NOTE : MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION ,PHYSICAL PROPERTIES AND HEAT TREATMENT DETAILS FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

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 PROCUREMENT-MAA  
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 Fax : (965) 23260280

## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249    MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
48	475472	TUBE NOZZLE GLAND BOLT, 1/2 INCH UNC X 45 LG (HEX_HD_BOLT) WITH NUT	MAA Refinery	158	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                      BOLTS,NO MOD,NO MOD,NO MOD

LENGTH:                                      45MM  
 MATERIAL:                                    SA-193-GR B8CA-CL 1A  
 TYPE:    HEX BOLT WITH NUT  
 DIAMETER:                                    1/2 inch

**Description:**

SPARE PARTS FOR BREECH LOCK HEAT EXCHANGER

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
E-141-201 & 203	N/A	

ITEM: HEX\_HD\_BOLT WITH NUT  
 SIZE: 1/2 INCH UNC X 45MM LG

STANDARD: SA-193-GR B8CA-CL 1A

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
49	465601	STUD BOLT / 2 HEAVY HEX. NUTS, 1-1/8 INCH-8UN x 365L	MAA Refinery	5	ST		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                      STUDBOLTS,WITH NUT,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

MAT SPEC, NUT(S):	ASME SA193-B7 / SA194-2H
SIZE:	1-1/8 INCH-8UN x 365L
TYPE, NUT:	HEAVY HEX. NUTS
MAT SPEC, STUD BOLT(S):	ASME SA193-B7 / SA194-2H
THREAD LENGTH:	365 MM L
NUMBER, NUTS PER STUD BOLT:	2

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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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E-125-102		
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SECTIONAL DWG/PARTS/LIST NO.: VG2153-302-A-1109/ 17

ITEM: STUD BOLT / 2 HEAVY HEX. NUTS

SIZE: 1-1/8INCH-8UN X 365L

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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

MATERIAL STANDARD: ASME SA193-B7 / SA194-2H

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
50	465627	STUD BOLT / HEX NUTS 3/4 INCH x 130mm L, 10UNC	MAA Refinery	10	ST		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDBOLTS, WITH NUT, NO MOD, NO MOD

TYPE, NUT: HEX NUT  
LENGTH: 130 MM L  
MAT SPEC, STUD BOLT(S): ASTM A320 Gr.L7 / A194  
NUMBER, NUTS PER STUD BOLT: ASTM A320 Gr.L7 / A194  
SIZE: 3/4 INCH x 130mm L  
THREAD CLASS SYMBOL, NUT: 10UNC  
THREAD LENGTH: 130 mm L



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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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CTMS-135-3001		
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SECTIONAL DWG/PARTS/LIST NO.: FASTENERS CATALOG

ITEM: STUD BOLT / HEX NUTS, 10UNC UNIT NUMBER: 135

SIZE: 3/4 INCH X 130MM L

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## Kuwait National Petroleum Company

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إحدى شركات مؤسسة البترول الكويتية  
A Subsidiary of Kuwait Petroleum Corporation

**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

MATERIAL STANDARD: ASTM A320 GR.L7 / A194,GR.4 ASME

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
51	409406	STUD BOLTS, ASTM A193 GR.B7M , 1 1/8 IN DIA., 465 MM LONG WITH 2 HEAVY NUTS	MAA Refinery	4	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:** STUDBOLTS,WITH NUT,NO MOD,NO MOD

THREAD CLASS SYMBOL, STUD BOLT: 2A  
SIZE: 1 1/8 IN  
THREAD CLASS SYMBOL, NUT: 2B  
TYPE OF THREAD: UN SERIES, 8 TPI  
THREAD LENGTH: FULLY THREADED  
DESIGN SPEC, NUT: ASME / ANSI B18.2.2  
DESIGN SPEC, STUD BOLT: ASME / ANSI B18.2.1  
DESIGN SPEC, THREAD: ANSI B1.1  
GRADE: BOLT B7M / NUT GR.2HM  
LENGTH: 465 MM  
MANDATORY ADD REQMTS: MTC  
MAT SPEC, NUT(S): ASTM A194  
MAT SPEC, STUD BOLT(S): ASTM A320  
NUMBER, NUTS PER STUD BOLT: 2  
TYPE, NUT: HEAVY HEXAGONAL

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## Kuwait National Petroleum Company

### Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT , 8 UN WITH 2 HEAVY NUT , 1 1/8 IN DIA,465 MM LONG, TO ASTM A193 GR B7M AND ASTM A194 GR.2HM

THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

SIZE : 1 1/8 IN  
 LENGTH : 465 MM  
 BOLT MATERIAL : ASTM A193 GR.B7M  
 NUT MATERIAL : ASTM A194 GR.2HM

- NOTE:-
- 1.VENDOR SHALL SUBMIT MANUFATCURE'S QUOTATION ALONG WITH OFFER.
  - 2.ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION AND SUPPLEMENTARY REQUIREMENTS.
  - 3.VENDOR HAS TO SUBMIT MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  - 4.STUDS SHOULD HAVE THE NUTS ASEMBLED ON THEM.
  - 5.THE MATERIAL RECEIVED AT KNPC STORES MAY BE INSPECTED BY KNPC AND SHALL BE REJECTED IF IT DOES NOT MEET WITH REQUIREMENTS.

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
52	085165	STUD:BOLT,7/8 IN DIA,THD UNC 2A,6-1/2 IN LG,CARBON STEEL,ASTM-A307 LV,GR B	MAA Refinery	5	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDBOLTS,WITH NUT,NO MOD,NO MOD

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**KNPC**



RFQ # 1050249 MAA D/C STUD BOLTS

GRADE:	BOLT: B / NUT: B
LENGTH:	6-1/2 IN
MAT SPEC, NUT(S):	ASTM A307 LV
MAT SPEC, STUD BOLT(S):	ASTM A307 LV
NUMBER, NUTS PER STUD BOLT:	2
SIZE:	7/8 IN
THREAD LENGTH:	FULLY THREADED
TYPE OF THREAD:	UNC, 9 TPI
TYPE, NUT:	HEAVY HEXOGONAL (SEMI FINISHED)
DESIGN SPEC, NUT:	ASME / ANSI B18.2.2
DESIGN SPEC, STUD BOLT:	ASME / ANSI B18.2.1
DESIGN SPEC, THREAD:	ANSI B1.1
MANDATORY ADD REQMTS:	LENGTH OF STUD SHALL BE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS
THREAD CLASS SYMBOL, NUT:	2B
THREAD CLASS SYMBOL, STUD BOLT:	2A

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249    MAA D/C STUD BOLTS

**Description:**

STUD BOLT, CARBON STEEL, TO ASTM-A307 GR.B WITH TWO SEMIFINISHED HEAVY HEX.NUTS TO ASTM-A307 GR.B THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUDS CLASS 2B FIT FOR NUTS. STUD BOLT SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE-THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER IN. DIA. SHALL HAVE THE 8-PITCH THREAD SERIES. LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM STUDS & NUTS SHOULD BE MARKED WITH MATERIAL SPECIFICATION.

DIAMETER	LENGTH
IN INCHES	IN INCHES
7/8	6.1/2

NOTE : MANUFACTURER TO PROVIDE MTC INCLUDING CHEMICAL COMPOSITION ,PHYSICAL PROPERTIES FOR KNPC TO REVIEW AND APPROVE PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
53	471590	STUD BOLT/ 2 HEAVY HEX. NUTS 1 1/4 INCH 8UN-215L	MAA Refinery	25	SET		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**

STUDBOLTS,WITH NUT,NO MOD,NO MOD

DESIGN SPEC, NUT:	ASME SA194-2HM
MAT SPEC, STUD BOLT(S):	STUD BOLT
NUMBER, NUTS PER STUD BOLT:	2
SIZE:	1 1/4 INCH 8UN-215L
DESIGN SPEC, STUD BOLT:	ASME SA193-B7M
TYPE, NUT:	2 HEAVY HEX. NUTS

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**Kuwait National Petroleum Company**  
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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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D-25-408A		
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D-25-408B		
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SECTIONAL DWG/PARTS/LIST NO.: VS2151-R01-A-006/ N2-6

ITEM:STUD BOLT/ 2 HEAVY HEX. NUTS -

SIZE: 1 1/4 INCH 8UN-215L

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## Kuwait National Petroleum Company

Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

MATERIAL STANDARD: ASME SA193-B7M,/ ASME SA194-2HM

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
54	447545	STUD WITH TWO HEAVY HEX NUTS 1 INCH DIA,7 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

LENGTH, THREAD: 7 INCH  
 SIZE: 1 INCH  
 DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
 THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
 TYPE OF THREAD: COARSE THREAD SERIES  
 LENGTH: 7 INCH

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## Kuwait National Petroleum Company

### Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1 INCH DIA,7 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
 THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
 SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
 COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
 IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
 LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
 EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1	7

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
55	447531	STUD WITH TWO HEAVY HEX NUTS 1-1/2 INCH DIA,14-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDS,THREADED,NO MOD,NO MOD



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RFQ # 1050249 MAA D/C STUD BOLTS

SIZE: 1-1/2 INCH  
LENGTH: 14-1/2 INCH  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
LENGTH, THREAD: 14-1/2 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/2 INCH DIA,14-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/2	14-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
56	447544	STUD WITH TWO HEAVY HEX NUTS 1-1/4 INCH DIA,11-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
LENGTH: 11-1/2 INCH  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
SIZE: 1-1/4 INCH  
LENGTH, THREAD: 11-1/2 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/4 INCH DIA,11-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/4	11-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
57	447537	STUD WITH TWO HEAVY HEX NUTS 1-1/4 INCH DIA,9 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
LENGTH: 9 INCH  
LENGTH, THREAD: 9 INCH  
SIZE: 1-1/4 INCH  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/4 INCH DIA,9 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
 THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
 SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
 COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
 IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
 LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
 EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/4	9

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
58	447534	STUD WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,10 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDS,THREADED,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

LENGTH: 10 INCH  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
SIZE: 1-1/8 INCH  
LENGTH, THREAD: 10 INCH  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,10 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/8	10

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
59	447535	STUD WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,7-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
LENGTH, THREAD: 7-1/2 INCH  
SIZE: 1-1/8 INCH  
LENGTH: 7-1/2 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,7-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/8	7-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
60	447538	STUD WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,8 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

THREAD CLASS SYMBOL:

STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B

LENGTH:

8 INCH

LENGTH, THREAD:

8 INCH

SIZE:

1-1/8 INCH

DESIGN SPEC:

STUD -BS 4882, NUT - ASME B18.2.2 BS 4882

TYPE OF THREAD:

ASME B1.1 SERIES 8 UN

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**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,8 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
 THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
 SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
 COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
 IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
 LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
 EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/8	8

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
61	447542	STUD WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,9 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDS,THREADED,NO MOD,NO MOD



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RFQ # 1050249 MAA D/C STUD BOLTS

TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
LENGTH: 9 INCH  
SIZE: 1-1/8 INCH  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
LENGTH, THREAD: 9 INCH  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,9 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/8	9

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
62	447548	STUD WITH TWO HEAVY HEX NUTS 1-3/4 INCH DIA,15 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

LENGTH: 15 INCH  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
SIZE: 1-3/4 INCH  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
LENGTH, THREAD: 15 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-3/4 INCH DIA,15 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-3/4	15

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
63	447533	STUD WITH TWO HEAVY HEX NUTS 1-3/8 INCH DIA,10 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
LENGTH, THREAD: 10 INCH  
LENGTH: 10 INCH  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
SIZE: 1-3/8 INCH

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RFQ # 1050249 MAA D/C STUD BOLTS

### Description:

STUD BOLT WITH TWO HEAVY HEX NUTS 1-3/8 INCH DIA,10 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-3/8	10

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
64	447543	STUD WITH TWO HEAVY HEX NUTS 3/4 INCH DIA,4-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	100	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

Item Specifications: STUDS,THREADED,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
LENGTH: 4-1/2 INCH  
TYPE OF THREAD: COARSE THREAD SERIES  
LENGTH, THREAD: 4-1/2 INCH  
SIZE: 3/4 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 3/4 INCH DIA,4-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
3/4	4-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
65	447547	STUD WITH TWO HEAVY HEX NUTS 3/4 INCH DIA,5 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

<b>Item Specifications:</b>	STUDS,THREADED,NO MOD,NO MOD
SIZE:	3/4 INCH
LENGTH:	5 INCH
DESIGN SPEC:	STUD -BS 4882, NUT - ASME B18.2.2 BS 4882
LENGTH, THREAD:	5 INCH
TYPE OF THREAD:	COARSE THREAD SERIES
THREAD CLASS SYMBOL:	STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 3/4 INCH DIA,5 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
3/4	5

**NOTE TO VENDOR :**

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
66	447540	STUD WITH TWO HEAVY HEX NUTS 5/8 INCH DIA,4 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

TYPE OF THREAD:

COARSE THREAD SERIES

LENGTH, THREAD:

4 INCH

THREAD CLASS SYMBOL:

STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B

SIZE:

5/8 INCH

LENGTH:

4 INCH

DESIGN SPEC:

STUD -BS 4882, NUT - ASME B18.2.2 BS 4882

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RFQ # 1050249 MAA D/C STUD BOLTS

### Description:

STUD BOLT WITH TWO HEAVY HEX NUTS 5/8 INCH DIA,4 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
5/8	4

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
67	447539	STUD WITH TWO HEAVY HEX NUTS 5/8 INCH DIA,4-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

### Item Specifications:

STUDS,THREADED,NO MOD,NO MOD



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RFQ # 1050249 MAA D/C STUD BOLTS

LENGTH: 4-1/2 INCH  
LENGTH, THREAD: 4-1/2 INCH  
SIZE: 5/8 INCH  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
TYPE OF THREAD: COARSE THREAD SERIES  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 5/8 INCH DIA,4-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
5/8	4-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
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Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
68	447546	STUD WITH TWO HEAVY HEX NUTS 7/8 INCH DIA,5-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
SIZE: 7/8 INCH  
LENGTH: 5-1/2 INCH  
LENGTH, THREAD: 5-1/2 INCH  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
TYPE OF THREAD: COARSE THREAD SERIES

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 7/8 INCH DIA,5-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
7/8	5-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

KUWAIT NATIONAL PETROLEUM COMPANY  
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PROCUREMENT-MAA

MINA AHMADHI REFINERY - Admin Bldg. Room  
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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
69	447536	STUD WITH TWO HEAVY HEX NUTS 7/8 INCH DIA,6 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
LENGTH, THREAD: 6 INCH  
TYPE OF THREAD: COARSE THREAD SERIES  
LENGTH: 6 INCH  
SIZE: 7/8 INCH

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

### Description:

STUD BOLT WITH TWO HEAVY HEX NUTS 7/8 INCH DIA,6 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
7/8	6

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
70	465563	STUD BOLT / 2 HEAVY HEX. NUTS, 1-1/8 inch-8UN x 490L	MAA Refinery	40	ST		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

### Item Specifications:

STUDBOLTS,WITH NUT,NO MOD,NO MOD

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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

MAT SPEC, STUD BOLT(S):	ASME SA193-B7 / SA194-2H
THREAD LENGTH:	490L
NUMBER, NUTS PER STUD BOLT:	2
TYPE, NUT:	Hex Nut
MAT SPEC, NUT(S):	ASME SA193-B7 / SA194-2H
SIZE:	1-1/8 inch-8UN x 490L

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## Kuwait National Petroleum Company

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RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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E-107-109		
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SECTIONAL DWG/PARTS/LIST NO.: VG2153-204-A-0162/ 10

ITEM: STUD BOLT / 2 HEAVY HEX. NUTS

SIZE: 1-1/8 INCH-8UN X 490L

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249    MAA D/C STUD BOLTS

MATERIAL STANDARD: ASME SA193-B7 / SA194-2H

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
71	465625	STUD BOLT / HEX NUTS 1/2 INCH x 95mm L, 13UNC	MAA Refinery	655	ST		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

<b>Item Specifications:</b>	STUDBOLTS, WITH NUT, NO MOD, NO MOD
TYPE, NUT:	HEX
THREAD LENGTH:	95 mm L
THREAD CLASS SYMBOL, NUT:	13UNC
SIZE:	1/2 INCH x 95mm L
MAT SPEC, STUD BOLT(S):	ASTM A193-B8M/A194 8M
LENGTH:	95 MM
MAT SPEC, NUT(S):	ASTM A193-B8M/A194 8M

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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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CTMS-137-1001

CTMS-138-1001

CTMS-146-1001

CTMS-161-1001

CTMS-161-1002

SECTIONAL DWG/PARTS/LIST NO.: FASTENERS CATALOG



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**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

ITEM: STUD BOLT / HEX NUTS, 13UNC, UNIT NUMBER: 137, 138, 146, 161  
SIZE: 1/2 INCH X 95MM L

MATERIAL STANDARD: ASTM A193-B8M/A194 8M  
NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
72	461716	STUD BOLT WITH 2 HEX.NUT, 1-3/4 INCH X 24 INCH LONG, ASTM A193 GR. B8	MAA Refinery	15	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

*Item Specifications:* STUDBOLTS,WITH NUT,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

DESIGN SPEC, THREAD:	ANSI B1.1
DESIGN SPEC, STUD BOLT:	ASME / ANSI B18.2.1
DESIGN SPEC, NUT:	ASME / ANSI B18.2.2
TYPE, NUT:	HEAVY HEXAGONAL
TYPE OF THREAD:	UN SERIES, 8 TPI
THREAD LENGTH:	FULLY THREADED
THREAD CLASS SYMBOL, STUD BOLT:	2A
THREAD CLASS SYMBOL, NUT:	2B
SIZE:	1-3/4 INCH
NUMBER, NUTS PER STUD BOLT:	2
MAT SPEC, STUD BOLT(S):	ASTM A193
MAT SPEC, NUT(S):	ASTM A194
MANDATORY ADD REQMTS:	MTC
LENGTH:	24 INCH
GRADE:	ASTM A193 GR.B8 AND ASTM A194 GR.8

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## Kuwait National Petroleum Company

### Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT AND NUT, 1-3/4 IN DIA, 24 IN LONG STAINLESS STEEL, TO ASTM A193 GR.B8 AND ASTM A194 GR.8  
 THREADS IN ACCORDANCE WITH ANSI B1.1 CLASS 2A FIT FOR STUD AND CLASS 2B FIT FOR NUTS. STUD SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE COARSE THREAD SERIES AND SIZE 1-1/8 IN. AND LARGER IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES. LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH EXCLUDING END POINTS.

- SIZE : 1-3/4 INCH
- LENGTH : 24 INCH
- BOLT MATERIAL : ASTM A193 GR.B8
- NUT MATERIAL : ASTM A194 GR.8

- NOTE:
1. VENDOR SHALL SUBMIT ORIGINAL MANUFACTURE'S QUOTATION ALONG WITH OFFER.
  2. ALL THE TEST REPORTS AND MATERIAL CERTIFICATE AS PER APPLICABLE ASTM SPECIFICATION.
  3. VENDOR HAS TO SUBMIT ORIGINAL MTC FOR KNPC APPROVAL PRIOR SHIPMENT.
  4. PRODUCT MARKING SHALL BE AS PER APPLICABLE ASTM STANDARDS.
  5. STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.
  6. MATERIAL WILL BE INSPECTED UPON RECEIPT IN KNPC WAREHOUSE AND WILL BE REJECTED IF NOT MEETING KNPC P.O SPECIFICATION.

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
73	475435	STUD WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA, 350 MM LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	200	EACH		

**VEC CLASS: 31**
**VEC SUB CLASS: 10**
**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDS,THREADED,NO MOD,NO MOD

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## Kuwait National Petroleum Company

### Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

THREAD CLASS SYMBOL:            STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
 SIZE:                                    1-1/8 INCH  
 LENGTH, THREAD:                    350 MM  
 LENGTH:                                350 MM  
 DESIGN SPEC:                        STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
 TYPE OF THREAD:                    ASME B1.1 SERIES 8 UN

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA, 350 MM LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
 THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
 SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
 COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
 IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
 LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
 EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN MM
1-1/8	350

NOTE TO VENDOR:

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION, ALONG WITH THE OFFER.
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CERTIFICATES, FOR KNPC REVIEW AND APPROVAL, PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
74	447549	STUD WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,8-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	50	EACH		

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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
SIZE: 1-1/8 INCH  
LENGTH, THREAD: 8-1/2 INCH  
LENGTH: 8-1/2 INCH  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-1/8 INCH DIA,8-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-1/8	8-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

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## Kuwait National Petroleum Company

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**RFQ # 1050249    MAA D/C STUD BOLTS**

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
75	447541	STUD WITH TWO HEAVY HEX NUTS 1-3/4 INCH DIA,14-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	250	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

<b>Item Specifications:</b>	STUDS,THREADED,NO MOD,NO MOD
DESIGN SPEC:	STUD -BS 4882, NUT - ASME B18.2.2 BS 4882
TYPE OF THREAD:	ASME B1.1 SERIES 8 UN
LENGTH:	14-1/2 INCH
LENGTH, THREAD:	14-1/2 INCH
THREAD CLASS SYMBOL:	STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B
SIZE:	1-3/4 INCH

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### Request For Quotation



**RFQ # 1050249    MAA D/C STUD BOLTS**

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-3/4 INCH DIA,14-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
 THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
 SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
 COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
 IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
 LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
 EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-3/4	14-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
76	447550	STUD WITH TWO HEAVY HEX NUTS 1-3/8 INCH DIA,11-1/2 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	250	EACH		

**VEC CLASS: 31**

**VEC SUB CLASS: 10**

**INSPECTION CLASS: CLASS1**

**Item Specifications:**                    STUDS,THREADED,NO MOD,NO MOD

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RFQ # 1050249 MAA D/C STUD BOLTS

THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
LENGTH: 11-1/2 INCH  
SIZE: 1-3/8 INCH  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
LENGTH, THREAD: 11-1/2 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-3/8 INCH DIA,11-1/2 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-3/8	11-1/2

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
2. THE VENDOR SHALL SUBMIT THE MATERIAL MILL TEST CETIFICATES , FOR KNPC REVIEW AND APPROVAL , PRIOR TO SHIPMENT.
3. MATERIAL WILL BE INSPECTED (PMI MAY BE CARRIED OUT) IN KNPC WAREHOUSE UPON RECEIPT AND WILL BE REJECTED IF NOT MEETING P.O. SPECIFICATION

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
77	447532	STUD WITH TWO HEAVY HEX NUTS 1-3/8 INCH DIA,12 INCH LONG, EN 10269 GRADE 20CrMoVTiB4-10	MAA Refinery	250	EACH		



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RFQ # 1050249 MAA D/C STUD BOLTS

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDS,THREADED,NO MOD,NO MOD

TYPE OF THREAD: ASME B1.1 SERIES 8 UN  
THREAD CLASS SYMBOL: STUD - ASME B1.1 CLASS 2A, NUTS - ASME B1.1 CLASS 2B  
SIZE: 1-3/8 INCH  
LENGTH, THREAD: 12 INCH  
DESIGN SPEC: STUD -BS 4882, NUT - ASME B18.2.2 BS 4882  
LENGTH: 12 INCH

**Description:**

STUD BOLT WITH TWO HEAVY HEX NUTS 1-3/8 INCH DIA,12 INCH LONG

STUD & NUT MATERIAL: EN 10269 GRADE 20CrMoVTiB4-10  
THREADS IN ACCORDANCE WITH ASME B1.1 CLASS 2B FOR NUTS & CLASS 2A FOR STUD  
SIZE 1 INCH AND SMALLER IN DIA. SHALL HAVE THE  
COARSE THREAD SERIES AND SIZE 1.1/8 IN. AND LARGER  
IN DIA. SHALL HAVE THE 8-PITCH THREAD SERIES.  
LENGTH OF STUD SHALL BE THE EFFECTIVE THREAD LENGTH  
EXCLUDING END POINTS.

NOTE: STUDS SHOULD HAVE THE NUTS ASSEMBLED ON THEM.

DIAMETER	LENGTH
IN INCHES	IN INCHES
1-3/8	12

NOTE TO VENDOR :

1. THE VENDOR SHALL SUBMIT THE ORIGINAL MANUFACTURER'S QUOTATION , ALONG WITH THE OFFER .
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RFQ # 1050249 MAA D/C STUD BOLTS

Line #	Item #	Description	Site	Qty	Units	Unit Cost	Line Cost
78	471531	BOLT SET-STUD+2HN x 7/8 INCH x 9UNC x L160mm	MAA Refinery	32	SET		

VEC CLASS: 31

VEC SUB CLASS: 10

INSPECTION CLASS: CLASS1

**Item Specifications:**

STUDBOLTS,WITH NUT,NO MOD,NO MOD

MAT SPEC, NUT(S):	Hex. Nut
NUMBER, NUTS PER STUD BOLT:	2 Nuts
MAT SPEC, STUD BOLT(S):	BOLT SET-STUD
DESIGN SPEC, STUD BOLT:	SA193-B7
DESIGN SPEC, NUT:	SA194-2H
TYPE, NUT:	Hex. Nut
SIZE:	7/8 INCH x 9UNC x L160mm
LENGTH:	L 160 MM

KUWAIT NATIONAL PETROLEUM COMPANY  
COMMERCIAL DEPARTMENT  
PROCUREMENT-MAA  
MINA AHMADHI REFINERY - Admin Bldg. Room  
#13  
P.O. BOX 70, SAFAT - 13001, KUWAIT  
Phone : (965) 23881843  
Fax : (965) 23260280

**Kuwait National Petroleum Company**  
Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

**Description:**

SPARE PARTS FOR UNUSED COMMISSIONING SPARES

PROJECT: CLEAN FUELS PROJECT AT MAA

<u>TAG NO.</u>	<u>EQUIP. MODEL NO.</u>	<u>EQUIP SL. NO.</u>
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V-136-602		
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SECTIONAL DWG/PARTS/LIST NO.: VS2151-301-A-0343 / 5

ITEM:BOLT SET-STUD+2HN X 7/8 INCH X 9UNC X L160MM

SIZE: 7/8 INCH X 9UNC X L160MM

KUWAIT NATIONAL PETROLEUM COMPANY  
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## Kuwait National Petroleum Company

Request For Quotation



RFQ # 1050249 MAA D/C STUD BOLTS

MATERIAL STANDARD:SA193-B7/SA194-2H

NOTE: - VENDOR TO PROVIDE MTC FOR KNPC REVIEW AND APPROVAL PRIOR TO SHIPMENT