

TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE

IRN - 050102133520/8 - 01 - Rev. 00



TUV India Control Or SAP Number: 050102133520/8

Date: 13-03-2021

Project Name & Location: Not Applicable

TUV India Branch Name: Vadodara

TUV India Client Name: AEPCOM FASTENERS

End User Name: PHILS HEAVY ENGINEERING PVT. LTD.

DEC / PMC / EPC Name: Not Applicable
(If applicable)

DEC / PMC / EPC Asgmt. Number: Not Applicable
(If applicable)

Vendor Name & Location: AEPCOM FASTENERS, Vithal Udyognagar, Anand

P.O. Number: PO/PHIL/FST/201049-50/AFPL-013
(Client PO on Vendor) Dtd. 24.12.2020

Sub Vendor Name & Location: Not Applicable
(If applicable)

P.O. Number: Not Applicable
(If applicable - Vendor PO on Sub Vendor)

Item Description:

PO Item No.	Item Code	Item Description	UOM	P.O. Quantity	Offered Quantity	Accepted Quantity	Cumulative Accepted Quantity
MATERIAL : SA 193 Gr. B7M / SA 194 Gr. 2HM							
1	201049-407	FULL THREADED STUD 3/4" UNC X 160MM LONG.	Nos.	32	32	32	32
2	201049-408	HEAVY HEX NUT 3/4" UNC	Nos.	64	64	64	64
3	201049-605	FULL THREADED STUD 3/4" UNC X 150MM LONG.	Nos.	24	24	24	24
4	201049-606	HEAVY HEX NUT 3/4" UNC	Nos.	48	48	48	48
5	201050-307	FULL THREADED STUD 3/4" UNC X 160MM LONG.	Nos.	32	32	32	32
6	201050-308	HEAVY HEX NUT 3/4" UNC	Nos.	64	64	64	64
7	201050-605	FULL THREADED STUD 3/4" UNC X 150MM LONG.	Nos.	24	24	24	24
8	201050-606	HEAVY HEX NUT 3/4" UNC	Nos.	48	48	48	48

Reference Documents:

Sr. No.	Document Name	Client Document Number	Vendor Document Number	Approval Status
1)	PR / MR / ARM	Not Applicable	Not Applicable	Not Applicable
2)	QAP / ITP / QCP	Not Applicable	A1b/20-21/60540 Rev.00 Dtd. 31.12.2020	Approved with comment by Phils Heavy Engineering
3)	Drawing(s)	Not Applicable	Not Applicable	Not Applicable
4)	Datasheet(s)	Not Applicable	Not Applicable	Not Applicable
5)	Procedure(s)	Not Applicable	Not Applicable	Not Applicable
6)	Others (Specify)	TDC No. 201049-53/33/HEX.NUTS Rev.1 Dtd. 24.12.2020, 201049-53/31/AS/Studs Rev.1 Dtd. 24.12.2020	Not Applicable	Issued by Phils Heavy Engineering

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TUV India Pvt. Ltd. (TUV NORD GROUP): (REGD. & HEAD OFFICE), 801, Raheja Plaza - I, LBS Marg, Ghatkoper (West), Mumbai - 400086, Maharashtra, India.
Tel: + 91 22 66477000, Email: inspection@tuv-nord.com Website: www.tuv-nord.com/in

Form No. : F / INSP / IRN / 03 - R7; Revision Date: 13.03.2020

TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE

IRN - 050102133520/8 - 01 - Rev. 00



Stages Witnessed:

- 1) QAP Sr. No. 3.0, Selection of Samples for Product Testing as per approved QAP - Found to meet the Code & Specification requirements.
- 2) QAP Sr. No. 3.1, Product Tensile, Hardness test & Proof load test at ☒ NABL accredited lab on representative samples identified by TUV - Found to meet applicable code and specification requirements.
- 3) QAP Sr. No. 3.1, Hardness test on randomly selected sample for each lot as per QAP at in house hardness testing facility of AEP - Found to meet specification requirement.
- 4) QAP Sr. No. 3.2, Visual inspection (100%) from each line items - No injurious surface imperfections were observed.
- 5) QAP Sr. No. 3.2, Dimensional inspection (10% - Min. 01 No.) randomly selected samples from each line items - Found to meet the code and standard requirement.
- 6) QAP Sr. No. 3.2, Threads checked by std. GO / Not GO gauge (10% - Min. 01 No.) randomly selected samples from each line items - Found within limit.
- 7) QAP Sr. No. 3.3, PMI test for Stud and Nuts as per EIL Specification 6-81-0001-Rev.03 - Found within specified limits of respective material specification.
- 8) Marking & Stamping verified (10% - Min. 01 No.) randomly selected samples from offered item - Found in order
- 9) All measuring instruments/ equipment were verified for continued suitability for intended use, proper identification, calibration status, traceability to national standards & found satisfactory.

Documents Reviewed:

- 1) QAP Sr. No. 1.1, Raw material test certificate reviewed for its technical content only as declared by manufacturer and endorsed by (AEP) - Found to meet the applicable code and project specification requirement.
- 2) QAP Sr. No. 2.4, Heat Treatment Chart/report - Found to meet the applicable code & specification requirement.
- 3) QAP Sr. No. 3.1, Product chemical test reports - Found to meet the specification requirements.
- 4) Manufacturer test certificate No. AEP/COM/TC/1045 Dtd. 13.03.2021 - Found to meet the material specification requirements.

NCR / Waiver: (If Any)

Acceptance on Tempering temperature for studs & nuts, End user E-mail Dated: 11.01.2021

Identification:

10% dimensionally inspected items identified with ☒ Soft single stamped as "  " on Paper TAG.

Order status:

☒ Complete ☐ Incomplete

Sub order status: (If applicable)

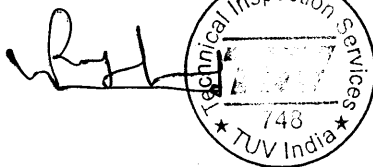
☐ Complete ☐ Incomplete

Date(s) of Inspection:

13.03.2021 (Final & Certification)

Conclusion:

All items were inspected within the scope defined in approved PO, QAP, specifications & Found to meet the requirements of purchase order & Specifications.



Virbhadrasingh Rathod

Inspector(s) to TUV India Private Limited

Distribution List: ☒ TUV India Client / End User ☒ TUV India Executing / Originating Branch ☒ Vendor / Sub Vendor

Revision Number (If Applicable): 00 - Type Reason for revision here

This Document Supersedes IRN No.: Mention previous IRN Number

Disclaimer: The inspection by TUV India Pvt. Ltd., review of Test Certificates / Reports and issue of Inspection Release Note / Certificate does not relieve Client / Supplier / Manufacturer / Stockiest from their responsibility towards the Client / End User to supply the genuine material / Item(s) and document(s) in full compliance with applicable Order, Specification, Technical, Quality, Quantity, Warranty, Guarantee requirements. Supplier / Manufacturer / stockiest is wholly legally responsible for genuineness of the material / Item(s) supplied and document(s) submitted. TUV India's responsibility is only limited to correctness of inspection results including review of the documents, within its agreed scope against written requirements and neither TUV India nor any of its group companies, associates or employees are in any way legally responsible for genuineness of the material / Item(s) and document(s). If the calibration certificate(s) for the measuring instrument(s) / equipment(s) used during inspection do not have traceability to NABL / Other certifying bodies, then the scope of review is limited only to technical content in the calibration certificate.

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TUV India Pvt. Ltd. (TUV NORD GROUP): (REGD. & HEAD OFFICE), 801, Raheja Plaza - I, LBS Marg, Ghatkoper (West), Mumbai - 400086, Maharashtra, India.

Tel: + 91 22 68477000, Email: inspection@tuv-nord.com Website: www.tuv-nord.com/in

Form No.: F / INSP / IRN / 03 - R7; Revision Date: 13.03.2020

MATERIAL TEST CERTIFICATE
(AS PER EN 10204 TYPE 3.2)

PLOT NO : 704/6 PHASE-4, GIDC VITHAL UDYOGNAGAR-388121

PHONE : (02692) 652569

MOB NO : (+91) 9727700368

E-MAIL : qcaep@ymail.com

WEB : aepcompany.in

T C NO : AEP COM/TC/1045

DATE : 13.03.2021

PAGE 1 OF 3

CLIENT : PHILS HEAVY ENGINEERING P LTD.

P O NO : PO/PHEL/FST/201049-50/AFPL-013 DT: 24.12.2020

ORDER STATUS : COMPLETE

W O NO : 60540

INSPECTION : TUV NORD

PROJECT :

JOB NO :

INTERNAL INSPECTION REPORT NO :

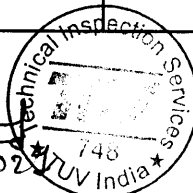
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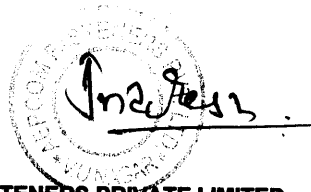
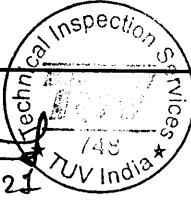
P O SR NO - ITEM CODE	ASSEMBLY	ITEM	GRADE	SIZE	QTY OFD	QTY RLD	LOT NO	HEAT/CT NO
3	F T STUD	STUD	B7M	3/4" UNC x 150mm	24	24	C 38	P-47
7	F T STUD	STUD	B7M	3/4" UNC x 150mm	24	24	C 38	P-47
1	F T STUD	STUD	B7M	3/4" UNC x 160mm	32	32	C 38	P-47
5	F T STUD	STUD	B7M	3/4" UNC x 160mm	32	32	C 38	P-47
2	HEX NUT	NUT	2HM	3/4" UNC	64	64	D 38	C-2553
4	HEX NUT	NUT	2HM	3/4" UNC	48	48	D 38	C-2553
6	HEX NUT	NUT	2HM	3/4" UNC	64	64	D 38	C-2553
8	HEX NUT	NUT	2HM	3/4" UNC	48	48	D 38	C-2553

MATERIAL SPECIFICATION		DIMENSIONS		THREADS		MARKING		HEAT TREATMENT	
STUD/BOLT	NUT	STUD/BOLT	NUT	STUD/BOLT	NUT	STUD BOLT	NUT	STUD/BOLT	NUT
SA193 GR B7 ASME SEC II PART A ED-2019	SA194 GR 2H ASME SEC II PART A ED-2019	ASME-2012 B18.2.1	ASME-2015 B18.2.2 (HEAVY HEX)	ASME-03 B1.1 CL 2A	ASME-03 B1.1 CL 2B	9 B7M	9 2HM	OIL QUENCHING AT 860° C TEMPERING AT 670° C	OIL QUENCHING AT 860° C TEMPERING AT 630° C
AS PER DRG NO. :				Reviewed					

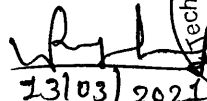
Vishal Kumar Purohit

23/03/2021



T C NO : AEP/COM/TC/1045			DATE : 13.03.2021			PAGE: 2 OF 3			AEP/COM FASTENERS PRIVATE LIMITED. (Formally Known as AEP COMPANY)		
HEAT CT NO	CERTIFICATE NO	C % 0.380 0.480	Si % 0.150 0.350	Mn % 0.750 1.000	P % MAX 0.035	S % MAX 0.04	Cr % 0.800 1.100	Mo % 0.150 0.250			
P-47	TMA/469	0.410	0.250	0.810	0.024	0.024	0.990	0.160			
HEAT CT NO	CERTIFICATE NO	C % 0.400 MIN	Si % MAX 0.400	Mn % MAX 1.000	P % MAX 0.040	S % MAX 0.050					
C-2553	WIML-1329	0.443	0.181	0.730	0.035	0.008					
LOT NO	Y S AT 0.2% MPa	UT S MPa	ELGN % GL=4D	REDN IN AREA %	PTC NO	V-NOTCH CHARPY IMPACT AT -101° C				PTC NO	
						I J	II J	III J	AVG		
C 38	636.1	713.3	24.46	51.73	WIML-407						
LOT NO	PROOF LOAD	NOS TESTED	HARDNESS HRB	PTC NO	24 HR TEMP AT 540° C HRB	V-NOTCH CHARPY IMPACT AT -101° C				PTC NO	
						I J	II J	III J	AVG		
D 38	50100LBF	2	88 - 89	WIML-409	86						
REMARKS :						WE CERTIFY THAT THE MATERIAL, THE FASTENERS, OR BOTH, WERE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND ANY SUPPLEMENTARY REQUIREMENTS OR OTHER REQUIREMENTS DESIGNATED IN THE PURCHASE ORDER OR CONTRACT AND WERE FOUND TO MEET THOSE REQUIREMENTS.					
1. MACRO ETCH RESULTS ARE SATISFACTORY. 2. STUD HARDNESS 93HRB-94HRB 3. HARDNESS CHECKED ON 100 % QTY. 4. COMPLY TO TDC NO : 201049-53/31/AS/STUD REV.01 DT: 24.12.2020 & 201049-53/33/HEX.NUT REV.01 DT: 24.12.2020 5. COMPLY TO QAP NO : A1b/20-21/60540 REV.0 DT: 31.12.2020 6. PMI AS PER : EIL STD : 6-81-0001 REV.3 DATE : 19.09.2016 7. PMI REPORT No.: AEP/COM / PHILS /1045 8. PROOFLOAD TEST CARRIED OUT FOR NUTS AND FOUND SATISFACTORY. 9. THREADS ON EXTERNAL BOLTING ARE LUBRICATED WITH MOLYBDENUM DISULPHIDE. 10. COMPLY REQUIREMENTS OF NACE STANDARD MR0175						 					
INSPECTION AGENCY						AEP/COM FASTENERS PRIVATE LIMITED.					

Reviewed


 13/03/2021
 (Virbhadrar Rethod)

ANNEXURE

AEP COM FASTENERS PRIVATE LIMITED.
(Formerly Known as AEP COMPANY)

T C NO : AEP COM/TC/ 1045

DATE : 13.03.2021

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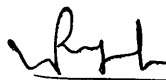
PRODUCT ANALYSIS

SIZE	LOT NO	CERTIFICATE NO	C %	Si %	Mn %	P %	S %	Cr %	Mo %		
			0.360	0.130	0.750	MAX	MAX	0.750	0.130		
			0.500	0.370	1.040	0.04	0.045	1.150	0.250		
3/4" DIA	C 38	WIML-407	0.381	0.254	0.812	0.018	0.009	0.915	0.160		

PRODUCT ANALYSIS

SIZE	LOT NO	CERTIFICATE NO	C %	Si %	Mn %	P %	S %				
			0.37	MAX	MAX	MAX	MAX				
			MIN	0.450	1.060	0.048	0.058				
3/4" DIA	D 38	WIML-409	0.408	0.227	0.755	0.022	0.003				

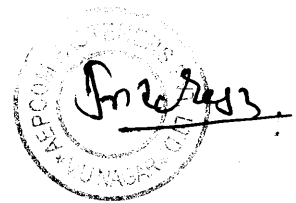
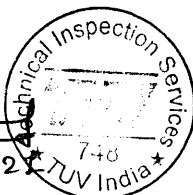
Reviewed



13/03/2021

Virabhadra Rathod

INSPECTION AGENCY



AEP COM FASTENERS PRIVATE LIMITED.

[illegible]

QC/2 REV : 00		FINAL INSPECTION REPORT				<i>P</i> AEPCOM Fasteners P Ltd.			
OFFERED FOR FINAL INSPECTION									
PURCHASER : PHILS HEAVY ENGINEERING P LTD. ✓						PAGE : 1 OF 1			
P O NO : PO/PHEL/FST/201049-50/AFPL-013 ✓						DATE : 24-12-20 ✓		DUE DT : 20-01-21	
W O NO : 60540 PROJECT :						INSPN : BVIL			

P O SR NO	SIZE		P O QTY	STUD LOT NO	NUT LOT NO	VISUAL	DIMENAL	MARKING	COL CODE	REMARKS	REMARKS
	DIA	LENGTH									
FULL THREADED STUD. SA 193 Gr. B7M ✓											
3	3/4" UNC	150 ✓	24 ✓								
7	3/4" UNC	150 ✓	24 ✓								
1	3/4" UNC	160 ✓	32 ✓	C 38	-						
5	3/4" UNC	160 ✓	32 ✓								
			112								
NUTS. SA 194 Gr. 2HM ✓											
2	3/4" UNC		64 ✓								
4	3/4" UNC		48 ✓								
6	3/4" UNC		64 ✓	-	D 38						
8	3/4" UNC		48 ✓								
			224								

NOTE


1 Threads on external bolting shall be lubricated with graphite grease for molybdenum

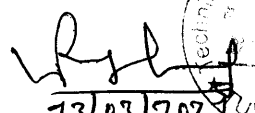
→ visual inspection (100% in dumb condition) - OK.

→ dimension inspection (10% min. of No) randomly selected samples from offered each line items - found to meet the drawing & standard requirements.

→ PMT test witnessed as per approved QAP - found satisfactory.

→ marking verified.

→ 10% dimensionally inspected items identified with single stamped as "  " on label TAG.


 23/03/2021
 (Vishal Kumar)

NOTE :	QAP NO:	A1b/20-21/60540 R.0 DT: 31.12.2020	IMPACT TEST :	NA	COLOURE CODE :
	T D C :	201049-53/31/AS/STUDS REV.1 DT: 24.12.2020	IGC PRACTICE :	NA	NA
	P M I :	6-81-0001 REV.03	PRODUCT	YES	
PRODUCTION :		Q C :		INSPECTION AGENCY :	

