



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 757982-3598886-01 _____

Report No.: IS3598886 _____

Port of: ISTANBUL _____

Date: 13 JUNE 2019 _____

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF GEDIK KAYNAK SAN. VE TIC. A.S , ATTEND THEIR PLANT AT PENDIK - ISTANBUL / TURKEY , ON THE 24 DAY OF DECEMBER , 2018 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

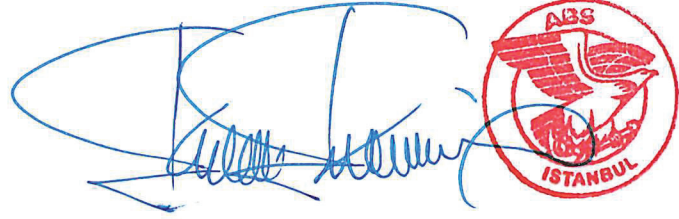
THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE SHIELDED METAL ARC WELDING SECTION:

<u>TRADE NAME</u>	<u>SPECIFICATION</u>	<u>GRADE OR CLASS</u>	<u>SHIELDING GAS</u>	<u>POSITION</u>	<u>CURRENT/ POLARITY</u>	<u>SIZE</u>
GeKa ELIT	ABS	2	---	ALL	DCEN / AC	2.0 - 5.0 mm
GeKa PANTERA	ABS	2	---	ALL	DCEN / AC	2.0 - 5.0 mm
GeKa CEM	ABS	2	---	F	DCEN / AC	3.2 - 5.0 mm
GeKa LASER B47	ABS	3Y,3Y H5**	---	ALL	DCEP	2.5 - 5.0 mm
GeKa LASER B47 A	ABS	3Y,3Y H5**	---	ALL	DCEP / AC	2.5 - 5.0 mm
GeKa LASER B 50	ABS	3Y,3Y H5*	---	ALL	DCEP	2.5 - 5.0 mm
GeKa LASER B 55	ABS	3Y,3Y H5**	---	ALL	DCEP	2.5 - 5.0 mm
GeKa LASER B 55-S	ABS	3Y,3Y H5**	---	ALL	DCEP	2.5 - 5.0 mm
GeKa TEMPO B 48	AWS A5.5	E7018-G	---	ALL	DCEP	2.5 - 5.0 mm
GeKa TEMPO B 48	ABS	3Y,3Y H5*	---	ALL	DCEP	2.5 - 5.0 mm
GeKa TEMPO B 85M	AWS A5.5	E11018-M*	---	ALL	DCEP	2.5 - 5.0 mm
GeKa LASER 43	ABS	4Y,4Y400 H5	---	ALL	DCEP	2.5 - 5.0 mm
GeKa LASER 43	AWS A5.1	E7016-1 H4	---	ALL	DCEP	2.5 - 5.0 mm
GeKa TEMPO B 65	ABS	4YQ460 H5	---	ALL	DCEP	2.5 - 5.0 mm
GeKa TEMPO B70S	ABS	4YQ500 H5	---	ALL	DCEP	2.5 - 5.0 mm
GeKa NIBAZ B70	AWS A5.11	ENiCrFe-3	---	ALL	DCEP	2.5 - 4.0 mm

* Impact tests were carried out at - 60 C.

** Impact tests were carried out at - 40 C.

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

A handwritten signature in blue ink is positioned to the left of a red circular stamp. The stamp features the ABS logo, which includes a stylized eagle with wings spread, and the text "ABS" at the top and "ISTANBUL" at the bottom.

EVREN ERDIR SURVEYOR

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



Certificate number : WM 12259/06/U.0

File number : 512/05

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

Gedik Kaynak Sanayi Ve Ticaret A/S
Istanbul - TURKEY

for the product

Covered Electrode for Manual Metal Arc Welding

Designation	: Geka LASER B 47
Grade	: 3YH5
Description	: Basic covering
Diameter	: 2.5 - 3.20 - 4.0 - 5.0 mm
Welding current	: DC+
Welding position	: Flat butt weld (PA bw), Vertical upwards butt weld (PF bw), Horizontal vertical butt weld (PC bw), Overhead butt weld (PE bw), Horizontal vertical fillet weld (PB fw), Vertical upwards fillet weld (PF fw), Horizontal overhead fillet weld (PD fw)
Remark	: Deposited metal tested with specified Charpy V min. average KV 47J at -40°C.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

This certificate will expire on: 16 Jun 2021

For Bureau Veritas Marine & Offshore,

Local office: BV ISTANBUL

Issued on 16 Jun 2020

Surveyor: G. Yilmaz



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.



ACCORDING to REGULATION EU No 305/2011
DECLARATION OF PERFORMANCE
No.GK.LASERB47.CPR.2013



- Unique identification code of the product-type:**
GeKa LASER B 47 (EN ISO 2560-A – E 42 4 B 42 H5)
- Type, batch or serial number or any other element allowing identification of the construction product:
See batch number and date of manufacture on packaging
- Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:
Use in metallic structures or in composite metal and concrete structures
- Name, registered trade name and contact address of the manufacturer as required pursuant to Article 11(5):**
Gedik Kaynak San ve Tic A.Ş. Ankara Caddesi No.306 Seyhli 34906 Istanbul / Turkey www.gedikwelding.com
- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 2+
- In case of the declaration of performance concerning a construction product covered by a harmonized standard:
Notified factory production control certification body number 0035 – TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, D-51105 Cologne, Germany - performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control; Certificate no: 0035-CPR-C602
- Declared performance

Essential characteristics (EN 13479: 2004, Annex ZA)	Performance	Harmonized technical specification
Tolerances on dimensions	passed	EN 13479:2004 , EN ISO 544: 2011
Elongation	≥ 20 %	EN 13479: 2004, EN ISO 2560-A: 2009
Tensile strength	500 – 640 MPa	EN 13479: 2004, EN ISO 2560-A: 2009
Yield strength	≥ 420 MPa	EN 13479: 2004, EN ISO 2560-A: 2009
Impact strength	≥ 47 J (- 40 °C)	EN 13479: 2004, EN ISO 2560-A: 2009
Chemical composition	passed	EN 13479: 2004, EN ISO 2560-A: 2009
Durability	passed	EN 13479: 2004
Dangerous substances	passed**)	EN 13479:2004
Emission of radioactivity	Is not relevant	EN 13479:2004-

**) More details about dangerous substances see safety data sheet

- The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4..

Signed for, and on behalf of the manufacturer by:

Burak KÜÇÜKKEÇECİ
Quality Control Manager



Zulassungszertifikat für Schweißzusätze und Schweißhilfsstoffe

Hersteller: Gedik Kaynak Sanayi Ve Ticaret A. S.
Ankara Cad. No. 306
34906 PENDIK-ISTANBUL
TÜRKEI

Schweißzusatz:	Stabelektrode	DB-Zulassungs-Nr.:	10.110.03
Markenbezeichnung:	GeKa LASER B 47	Geltungsdauer:	31.12.2020
Normbezeichnung:	DIN EN ISO 2560-A-E 42 4 B 42		

Geltungsbereich aufgrund der nach VA 918 490 durchgeführten Eignungsprüfung:

Werkstoffgruppe nach CEN ISO/TR 15608 ¹⁾:	2.1 ($R_{eH} \leq 420$ MPa)
Schweißprozess nach DIN EN ISO 4063:	111
Schweißpositionen nach DIN EN ISO 6947:	PA, PB, PC, PF
Stromart und Polung:	= (-)
Durchmesserbereich:	2,5 – 5,0 mm
Bemerkungen/Schweißbedingungen:	./.

Kirchmöser, den 01.03.2018


.....
(Dip.-Ing. (FH) Kupiec - Leiter Zertifizierungsstelle)

¹⁾ Erläuterungen zu den mitgeltenden Werkstoffen sind der VA 918 490, Anhang 3 zu entnehmen.

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Electrode**with trade name
GeKa LASER B 47Manufacturer
Gedik Kaynak Sanayi ve Ticaret A.S.
Istanbul, Turkeyis found to comply with
DNV GL rules for classification – Ships

with this approval

Grade	3 YH5
Current	DC +
Approved diameter	2,5 - 5,0mm
Positions	All, except vertical down
Remarks	---

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.This Certificate is valid until **2021-06-30**.
Issued at **Hamburg** on **2016-07-20**DNV GL local station: **Istanbul**Approval Engineer: **Hans-Joachim Vogt**for **DNV GL**.....
Thorsten Lohmann
Head of Section

Any significant change in design or construction may render this Certificate invalid.

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ



СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС TR.АГ81.Н08013

Срок действия с 21.09.2017 по 20.09.2020

№ 0173545

ОРГАН ПО СЕРТИФИКАЦИИ ОГРН 1117746284260. **ОРГАН ПО СЕРТИФИКАЦИИ ПРОДУКЦИИ** ООО «Бирюза».
Адрес: 142703, Россия, Московская область, Ленинский район, город Видное, Промзона территория, корпус 526.
Телефон: +74955328497, факс: +74955328497, адрес электронной почты: cs.biryuza@yandex.ru.
Аттестат аккредитации № РОСС RU.0001.11АГ81.

ПРОДУКЦИЯ Сварочные электроды с покрытием, торговой марки «Geka», «GeKaТес», модели: (смотреть приложение на 5 листах, бланки №№ 0032139-0032143) Серийный выпуск.

КОД ОК
код ОК 034-2014
(КПЕС 2008)
25.93.15.120

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ
по спецификации изготовителя.

КОД ТН ВЭД
8311

ИЗГОТОВИТЕЛЬ «GEDİK KAYNAK SANAYİ ve TİCARET A.Ş.»
Адрес: Турция, Ankara Caddesi No:306 Şeyhli 34906 Pendik İstanbul Türkiye.

СЕРТИФИКАТ ВЫДАН «GEDİK KAYNAK SANAYİ ve TİCARET A.Ş.».
Адрес: Турция, Ankara Caddesi No:306 Şeyhli 34906 Pendik İstanbul Türkiye
Телефон: +90 216 378 50 00.

НА ОСНОВАНИИ протокола № 16479-392/1-1-17/ЕМ от 18.09.2017 года Испытательной лаборатории Общества с ограниченной ответственностью «Инновационные решения», регистрационный номер аттестата аккредитации № РОСС RU.0001.21АВ90.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема сертификации: 3с



Руководитель органа
(заместитель руководителя)

Эксперт

подпись

подпись

Ж.В. Иванова

инициалы, фамилия

И.М. Мельситдинова

инициалы, фамилия

Сертификат не применяется при обязательной сертификации

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

№ **0032139**

ПРИЛОЖЕНИЕ

РОСС TR.AГ81.H08013

К сертификату соответствия № _____

**Перечень конкретной продукции, на которую распространяется
 действие сертификата соответствия**

код ОК	Наименование и обозначение продукции, ее изготовитель	Обозначение документации, по которой выпускается продукция
код ТН ВЭД		
25.93.15.120 8311	Сварочные электроды с покрытием, торговой марки «GeKa», «GeKaTec», модели: GeKaTec CU- WELD GeKaTec BRONZE GeKaTec ALBRONZE GeKaTec ALUWELD- Si GeKaTec ALUWELD 12 Si GeKaTec ALUWELD 99 Al GeKaTec St- CAST GeKaTec Ni- CAST GeKaTec Ni- CAST BFNC GeKaTec Fe- CAST GeKaTec Fe- CAST HD GeKaTec ANTI-CRACK 7015 GeKaTec ANTI-CRACK B 90 GeKaTec 299 SUPER GeKaTec 299 HD GeKaTec UNIBASE 660 HD GeKaTec 410 HD GeKaTec FAZER 300 GeKaTec FAZER 17 MnCr GeKaTec KAVTAM GeKaTec FAZER 55 HD GeKaTec FAZER 63 HD GeKaTec FAZER 65 B GeKaTec COBALT 6 GeKaTec COBALT 12 GeKaTec COBALT 1 GeKaTec COBALT 21 GeKaTec THERMO DUR GeKaTec THERMO ROLL GeKaTec THERMO WELD GeKaTec THERMO RESIST GeKaTec TOOL 58 S GeKaTec TOOL 60 GeKa ELHARD 250 GeKa ELHARD 300 GeKa ELHARD 300 R GeKa ELHARD 350 GeKa ELHARD 400 GeKa ELHARD 410 R	



Руководитель органа
 (заместитель руководителя)

Эксперт

И.И.
 подпись

И.И.
 подпись

Ж.В. Иванова

инициалы, фамилия

И.М. Мельситдинова

инициалы, фамилия

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

№ **0032141**

ПРИЛОЖЕНИЕ

РОСС TR.АГ81.Н08013

К сертификату соответствия № _____

**Перечень конкретной продукции, на которую распространяется
 действие сертификата соответствия**

код ОК	Наименование и обозначение продукции, ее изготовитель	Обозначение документации, по которой выпускается продукция
код ТН ВЭД		
25.93.15.120 7311	GeKa ELOX R 312 A GeKa ELOX R 316 L GeKa ELOX R 316 L-17 GeKa ELOX B 316 L GeKa ELOX RS 316 GeKa ELOX R 317 L GeKa ELOX R 318 GeKa ELOX B 318 GeKa ELOX B 327 GeKa ELOX R 347 GeKa ELOX B 347 GeKa ELOX R 385 GeKa ELOX B 385 GeKa ELOX B 410 GeKa ELOX B 410 Ni Mo GeKa ELOX BS 410 Ni Mo GeKa ELOX B 430 GeKa ELOX B 430 Mo GeKa ELOX R 2209 GeKa ELOX B 2209 GeKa ELOX B 16-8-2 GeKa ELNIKEL GeKa ELNIKEL-NC GeKa ELNIFER GeKa ELMONEL GeKa ELFER GeKa TEMPO B 75 GeKa TEMPO B 85 M GeKa TEMPO B 90 GeKa TEMPO Ni Cu GeKa TEMPO B W 2 GeKa TEMPO B 1 GeKa TEMPO B 2 GeKa TEMPO B 3	



Руководитель органа
(заместитель руководителя)

Эксперт

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подпись

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подпись

Ж.В. Иванова

инициалы, фамилия

И.М. Мельситдинова

инициалы, фамилия

**СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ**

№ **0032142**

ПРИЛОЖЕНИЕ

РОСС TR.AG81.H08013

К сертификату соответствия № _____

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действие сертификата соответствия**

код ОК	Наименование и обозначение продукции, ее изготовитель	Обозначение документации, по которой выпускается продукция
код ТН ВЭД		
25.93.15.120 7311	GeKa OPUS MOR GeKa OPUS MOB GeKa OPUS C GeKa OPUS CM GeKa OPUS CM-15 GeKa OPUS CML GeKa OPUS CMV GeKa OPUS 2 CM GeKa OPUS 2 CM-15 GeKa OPUS 2 CML GeKa OPUS 5 CM GeKa OPUS 9 CM GeKa OPUS 9 CMV GeKa OPUS 9 CMV-15 GeKa ELOX B 307 GeKa ELOX R 307 GeKa ELOX B 307 L GeKa ELOX RS 307 GeKa ELOX R 308 L GeKa ELOX R 308 L-17 GeKa ELOX R 308 H GeKa ELOX B 308 H GeKa ELOX B 308 L GeKa ELOX R 308 L Mo GeKa ELOX RS 308 GeKa ELOX R 309 L GeKa ELIT GeKa PANTERA GeKa LOTUS GeKa EGE GeKa GRANIT GeKa STEP GeKa INTER GeKa ELIT ARMCO GeKa ELIT R 110 GeKa CEM	



Руководитель органа
(заместитель руководителя)

Эксперт

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_____ подписи

Handwritten signature
_____ подписи

Ж.В. Иванова

инициалы, фамилия

И.М. Мельситдинова

инициалы, фамилия

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

№ **0032143**

ПРИЛОЖЕНИЕ

РОСС TR.AG81.H08013

К сертификату соответствия № _____

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 действие сертификата соответствия**

код ОК	Наименование и обозначение продукции, ее изготовитель	Обозначение документации, по которой выпускается продукция
код ТН ВЭД		
25.93.15.120 7311	GeKa LINK 6010 GeKa LINK 7010- G GeKa LINK 7010- P1 GeKa LINK 8010- P1 GeKa LINK 8010- G GeKa LASER B 43 GeKa LASER B 47 GeKa LASER B 47- A GeKa LASER B 50 GeKa LASER B 55 GeKa LASER B 55 S GeKa LASER B 60 GeKa LASER B 160 GeKa TEMPO B 48 GeKa TEMPO B 60 GeKa TEMPO B 63 GeKa TEMPO B 65 GeKa TEMPO B 70 M GeKa TEMPO B 70 S GeKa TEMPO B 70 Mo	
	ИЗГОТОВИТЕЛЬ «GEDİK KAYNAK SANAYİ ve TİCARET A.Ş.» Адрес: Турция, Ankara Caddesi No:306 Şeyhli 34906 Pendik İstanbul Türkiye.	



Руководитель органа
 (заместитель руководителя)
Эксперт

_____ подпись
 _____ подпись

Ж.В. Иванова

 инициалы, фамилия
И.М. Мельситдинова

 инициалы, фамилия



2012



НАЦИОНАЛЬНОЕ АГЕНТСТВО КОНТРОЛЯ СВАРКИ

СВИДЕТЕЛЬСТВО

№АЦСМ-3-00423

**об аттестации сварочных материалов
в соответствии с требованиями РД 03-613-03**

**Организация: GEDIK KAYNAK SANAYI VE TICARET
ANONIM SIRKETI**

(Ankara Cad №:306 Şehyli, Pendik, Istanbul, Turkey, 34913)

(производитель СМ)

Вид аттестации: Первичная

Вид СМ: Эп

Марка СМ: GeKa LASER B 47

Диаметр, мм: 2,5; 3,2; 4,0; 5,0

ТУ, стандарт на СМ: DATASHEET for GeKa LASER B 47 COVERED ELECTRODE

Способ сварки (наплавки): РД

Группы основных материалов: 1, 2, 29

Группы технических устройств: ГДО, ГО, КО, МО, НГДО, ОТОГ, ОХНВП, ПТО, СК

Примечания:

1. В соответствии с данными производителя см имеет классификационное обозначение: E 42 4 B 42 H5 по TS EN ISO 2560-A, E 7018 H4 по ASME SECTION IIC SFA/AWS A5.1
2. Конкретные условия применения СМ определяются требованиями НД и результатами производственной аттестации технологий сварки (наплавки)

Основание: Протокол аттестации № АЦСМ-3-00463 от 12.09.2017 г.

Наименование и юридический адрес АЦСМ-3: ООО "Научно-производственное предприятие Северо-Кавказский учебно-научный центр", 344018, город Ростов-на-Дону, улица Народного ополчения, дом 213.

Дата выдачи 15.09.2017 г.

Свидетельство действительно до 15.09.2020 г.

Президент НАКС



Н.П. Алёшин



Система
менеджмента
ISO 9001:2008



www.tuv.com
ID 9108636305





Welding Consumables Annual Re- Approval Certificate

Date
30 April 2019

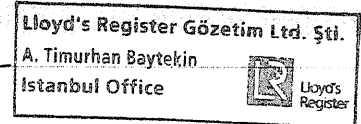
Office
ISTANBUL

This certificate is issued to
GEDİK KAYNAK SANAYİ VE TİCARET A.Ş.

The undermentioned welding consumables supplied by the company named above have been approved for a further year ending
31.12.2019 with the grading shown.

Trade Name	Section	Grading
GEKA LASER B-47	3	DXVuO BF 3Ym H15
GEKA LOTUS	3	DXVuO BF 2m NR
GEKA PANTERA	3	DXVuO BF 2m NR
GEKA ELIT	3	DXVuO BF 2m NR
GEKA S1 / ELIFLUX BAR	4	D B 2T NR 20
GEKA S2Si / ELIFUX BFB	4	D B 3YM NR NA
GEKA S2 / ELIFLUX BFB	4	D BF 3M NR NA
GEKA ELCOR R 71 /CO2	5	DXVudO BF 3YS H10 NA
GEKA SG2 78% Ar - 20% CO2 - 2% O2	5	DXVu BF 3YS H15 NA

ALI T. BAYTEKIN
Surveyor to Lloyd's Register Gozetim Ltd. Sti.



a member of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



APPROVAL OF WELDING CONSUMABLES CERTIFICATE
No. QBI121619XT/003

This is to certify that the following product, in view of the tests carried out, has been approved.

<i>Description</i>	Covered electrodes for manual welding
<i>Type</i>	GEKA LASER B 47
<i>Class</i>	3Y H10
<i>Applicant</i>	GEDIK KAYNAK SANAYI VE TICARET A.S. ANKARA CADDESİ, NO.306 SEYHLI, PENDİK 81520 Istanbul TURKEY
<i>Manufacturer</i>	GEDIK KAYNAK SANAYI VE TICARET A.S.
<i>Place of manufacture</i>	ANKARA CADDESİ, NO.306 SEYHLI, PENDİK 81520 Istanbul TURKEY
<i>Reference standards</i>	Part D, Chapter 5, Section 2 of RINA Rules for the classification of ships

The approval is valid for one year and can be reconfirmed subject to the satisfactory outcome of the prescribed control tests.

Issued in **ISTANBUL** on **March 3, 2020**. *This Certificate is valid until* **February 28, 2021**




RINA Services S.p.A.
Volkan Kocyigit

This certificate consists of this page and 1 enclosure



APPROVAL OF WELDING CONSUMABLES CERTIFICATE

No. QBI121619XT/003
Enclosure - Page 1 of 1
GEKA LASER B 47

GEDIK KAYNAK SANAYI VE TICARET A.S.	ANKARA CADDESİ, NO.306 SEYHLİ, PENDİK - 81520 İstanbul - TURKEY
-------------------------------------	--

Class	3Y H10
Diameters	2.5-3.25-4-5-6 mm
Welding positions	all positions excluding vertical in downward direction
Type of current	direct current reverse polarity and alternating


ISTANBUL March 3, 2020



**СВИДЕТЕЛЬСТВО
ОБ ОДОБРЕНИИ СВАРОЧНЫХ МАТЕРИАЛОВ**

**CERTIFICATE
OF APPROVAL FOR WELDING CONSUMABLES**

Изготовитель
Manufacturer

GEDİK KAYNAK SANAYİ VE TİKARET A.S.

Адрес
Address

Ankara Cad.No.306 Seyhli, 34906 Pendik-Istanbul, Turkey

Сварочные материалы
Welding consumables

Электроды покрытые металлические для ручной дуговой сварки марки "GEKA LASER B47"
Coated metal electrodes for manual arc welding trade name "GEKA LASER B47"

Первоначальные испытания проведены под техническим наблюдением Российского морского регистра судоходства.
Initial tests have been carried out under technical supervision of Russian Maritime Register of Shipping.

Акт № 17.10118.240 от 25.05.2017
Survey Report No. of (дата/date)

Техническая документация и дата ее одобрения Российским морским регистром судоходства
Technical documentation and date of its approval by Russian Maritime Register of Shipping

**Спецификация производителя TS 101 на электроды марки "GEKA LASER B47", одобренная
25.05.2017.**

**Manufacturer's specification TS 101 for electrodes of trade name "GEKA LASER B47" approved on
25.05.2017.**

На основании освидетельствований и проведенных испытаний удостоверяется, что вышеупомянутые сварочные материалы удовлетворяют требованиям правил Российского морского регистра судоходства.
This is to certify that the welding consumables listed above have been surveyed and tested and thereby meet the requirements of the Russian Maritime Register of Shipping rules.

Область одобрения и технические данные согласно Приложению (на 1 листах).
Scope of approval and technical data listed in Annex (on 1 pages).

Настоящее Свидетельство с Приложением (на 1 листах) действительно до 25.05.2022 и подлежит
This Certificate with Annex (on 1 pages) is valid until 25.05.2022 (дата/date) and is subject to

ежегодному подтверждению.
annual confirmation.

Настоящее Свидетельство теряет силу в случаях, установленных в Правилах технического наблюдения за постройкой судов и изготовлением материалов и изделий для судов.

This Certificate becomes invalid in cases stipulated in Rules for the Technical Supervision During Construction of Ships and Manufacture of Shipboard Materials and Products.

Дата выдачи 25.05.2017 № 17.10119.240
Date of issue No.

Российский морской регистр судоходства
Russian Maritime Register of Shipping



(подпись)
signature

Петров М.В./ M. Petrov

(фамилия, инициалы)
name



ОТМЕТКИ О ПОДТВЕРЖДЕНИИ СВИДЕТЕЛЬСТВА
ENTRIES ON CONFIRMATION OF CERTIFICATE

На основании результатов испытаний и освидетельствований действие настоящего Свидетельства подтверждается
Based on the results of tests and survey, the validity of this Certificate is confirmed

до 22.05.2019
until

Дата: 12.06.2018.
Date:

Инженер-инспектор: [Signature]
Surveyor: (подпись)
signature



до 22.05.2020
until

Дата: 09.08.2016
Date:

Инженер-инспектор: [Signature]
Surveyor: (подпись)
signature



до
until

Дата:
Date:

Инженер-инспектор:
Surveyor: (подпись)
signature

до
until

Дата:
Date:

Инженер-инспектор:
Surveyor: (подпись)
signature



РОССИЙСКИЙ МОРСКОЙ РЕГИСТР СУДОХОДСТВА
RUSSIAN MARITIME REGISTER OF SHIPPING

6.5.33.1

Лист
Page

1

Всего листов
Number of pages

1

ПРИЛОЖЕНИЕ К СВИДЕТЕЛЬСТВУ ОБ ОДОБРЕНИИ СВАРОЧНЫХ МАТЕРИАЛОВ № 17.10119.240
ANNEX TO CERTIFICATE OF APPROVAL FOR WELDING CONSUMABLES

Область одобрения и технические данные сварочных материалов
Scope of approval and technical data of welding consumables

Наименование Type	Марка Brand or trade name	Категория Grade	Положения сварки Welding position	Ток Current	Диаметр, мм Diameter, in mm	Классификация Classification	Примечания Remarks
Электроды Electrodes	ГЕКА LASER B47	ЗУН5	РА, РВ, РС, РD, РЕ, РF	DC(+)	2.5, 3.2, 4.0, 5.0	AWS A5.1: E 7018 H4	---

Маркировка: В сопроводительных документах изготовителя и на упаковке должно быть указано «Одобрено РС» с указанием категории сварочного материала.
Marking: In the Manufacturer's documents handed over together with the welding consumables and in the packaging it is to be marked: "Approved by RS" with index of the grade.

Код номенклатуры
Code of Nomenclature

14100100

Российский морской регистр судоходства
Russian Maritime Register of Shipping



Петров М.В./ M. Petrov

(фамилия, инициалы)
name

12/2004





Certificate No:20-0178-1
Sertifika No

TÜRK LOYDU

ANNUAL TEST CERTIFICATE FOR WELDING CONSUMABLES KAYNAK DOLGU MALZEMELERİ YILLIK TEST SERTİFİKASI

This is to certify that the below mentioned products have been inspected and tested and found satisfactory according to Türk Loydu Rules for Classification of Steel Ships - Welding.
Aşağıda belirtilen ürünlerin testlerinin yapıldığı ve Türk Loydu Tekne Yapımında Kaynak Kuralları uyarınca uygun bulunduğu onaylanır.

Manufacturer: GEDİK KAYNAK SANAYİ VE TİCARET A.Ş.
Üretici

Product Ürün	Welding Flux/ Shielding Gas Kaynak Tozu/ Koruyucu Gaz	Grade/ Suffix Derecesi/ Ek
Covered Electrodes Örtülü Elektrodlar GeKa ELİT GeKa LOTUS GeKa LASER B47	-	2 2 4YH5
Flux Cored Wire - Gas Combinations Gazaltı Özlü Kaynak Teli GeKa ELCOR R 81 Ni	CO2	4Y46S H5
Wire - Gas Combinations Tel - Gaz Kombinasyonu GeKa SG2/M24	M24(%78 Ar+%20 CO2+%2 O2)	4YMS
Wire - Flux Combinations Tel - Toz Kombinasyonu GeKa S1/BAR GeKa S2/BFB	BAR BFB	2T 4YM

Date of Test: 23.01.2020
Test Tarihi

Valid Until:
Geçerlilik Süresi

Ocak / January 2021

ISTANBUL
(Place/Yer)

30.01.2020
(Date/Tarih)



Hasan HABİBOĞLU
Surveyor to Türk Loydu



Certificate No:20-0178-2
Sertifika No

TÜRK LOYDU

ANNUAL TEST CERTIFICATE FOR WELDING CONSUMABLES KAYNAK DOLGU MALZEMELERİ YILLIK TEST SERTİFİKASI

This is to certify that the below mentioned products have been inspected and tested and found satisfactory according to Türk Loydu Rules for Classification of Steel Ships - Welding.
Aşağıda belirtilen ürünlerin testlerinin yapıldığı ve Türk Loydu Tekne Yapımında Kaynak Kuralları uyarınca uygun bulunduğu onaylanır.

Manufacturer: GEDİK KAYNAK SANAYİ VE TİCARET A.Ş.
Üretici

Product Ürün	Welding Flux/ Shielding Gas Kaynak Tozu/ Koruyucu Gaz	Grade/ Suffix Derecesi/ Ek
Covered Electrodes Örtülü Elektrodlar GeKa PANTERA	-	2
Flux Cored Wire - Gas Combinations Gazaltı Özlü Kaynak Teli GeKa ELCOR R 71 GeKa ELCOR R 110	CO2 CO2	4YSA H5 3Y62 SA H5
Wire - Gas Combinations Tel - Gaz Kombinasyonu		
Wire - Flux Combinations Tel - Toz Kombinasyonu		

Date of Test: 06.05.2020
Test Tarihi

Valid Until:
Geçerlilik Süresi

Mayıs / May 2021



Istanbul
(Place/Yer)

08.05.2020
(Date/Tarih)

Hasan HABİBOĞLU Acl.
Surveyor to Türk Loydu



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	002796-TSE-03/01
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	21.06.2010
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	27.09.2020
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	GEDİK KAYNAK SANAYİ VE TİCARET ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	ŞEYHLİ ANKARA CAD NO:306 /XXX PENDİK İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	GEDİK KAYNAK SANAYİ VE TİCARET A.Ş.
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	ANKARA CAD. NO:306 34913 ŞEYHLİ-PENDİK İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	14.10.02/TSE-14798
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	GeKa
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN ISO 2560 / 13.03.2013
BELGE KAPSAMI SCOPE OF LICENCE	

*ALAŞIMSIZ VE İNCE TANELİ ÇELİKLERİN ELLE YAPILAN ARK KAYNAĞI İÇİN ÖRTÜLÜ ELEKTROTLAR
-TS EN ISO 2560-A-E 38 0 RC 12
-TS EN ISO 2560-A-E 38 0 RC 11
-TS EN ISO 2560-A-E 38 2 RB 12
-TS EN ISO 2560-A-E 42 0 RC 11
-TS EN ISO 2560-A-E 42 0 RR 12
-TS EN ISO 2560-A-E 42 0 RR 53
-TS EN ISO 2560-A-E 35 A RR 12
-TS EN ISO 2560-A-E 38 3 C 21
-TS EN ISO 2560-A-E 42 0 RR 33
-TS EN ISO 2560-A-E 42 3 C 25
-TS EN ISO 2560-A-E 50 3 1Ni C 25
-TS EN ISO 2560-A-E 42 2 Mo C 25

e-imzalı/e-signed

24.09.2019

Belgelendirme Merkezi Başkanı Adına
AHMET NURSİ KARTAL

TSE İSTANBUL BELGELENDİRME MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kızıntı ve silinti yapılamaz.
*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606
*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya or  veya or T S E

BELGE KAPSAMI (002796-TSE-03/01nolu belge devamı) : GEDİK KAYNAK SANAYİ VE TİCARET ANONİM ŞİRKETİ
İLGİLİ TÜRK STANDARDI(RELATED TURKISH STANDARD) TS EN ISO 2560 / 13.03.2013

- TS EN ISO 2560-A-E 46 3 1Ni C 25
- TS EN ISO 2560-A-E 38 4 B 42 H5
- TS EN ISO 2560-A-E 42 3 B 63 H5
- TS EN ISO 2560-A-E 42 4 B 42 H5
- TS EN ISO 2560-A-E 42 4 B 32 H5
- TS EN ISO 2560-A-E 42 5 B 42 H5
- TS EN ISO 2560-A-E 46 5 B 42 H5
- TS EN ISO 2560-A-E 50 3 B 42 H5
- TS EN ISO 2560-A-E 42 3 Z (Ni Cr Cu) B 42 H5
- TS EN ISO 2560-A-E 42 6 Mn1Ni B 32 H5
- TS EN ISO 2560-A-E 46 6 1Ni B 42 H5
- TS EN ISO 2560-A-E 46 3 Mo C 25 (30.09.2015 K.G)
- TS EN ISO 2560-A-E 46 6 Z (Ni Cr Cu) B 42 H5 (30.09.2015 K.G)
- TS EN ISO 2560-A-E 46 6 2Ni B 42 H5 (30.09.2015 K.G)
- TS EN ISO 2560-A-E 46 6 3Ni B 42 H5 (30.09.2015 K.G)
- TS EN ISO 2560-A-E 46 6 B 42 H5 (30.09.2015 K.G)

e-imzalı/e-signed

24.09.2019

Belgelendirme Merkezi Başkanı Adına
AHMET NURSİ KARTAL

TSE İSTANBUL BELGELENDİRME MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.


*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr



VdTÜV-Kennblatt für Schweißzusätze

		1 Hersteller/Lieferer: Gedik Kaynak Sanayi ve Ticaret A.Ş. TUR 34906 Pendik Istanbul		2 Kennblatt-Nummer: 07466.05 03.11.2015	
3 Schweißzusatz*:		Stabelektrode			
4 Marke*:		GeKa LASER B 47			
7 Typ*:		EN ISO 2560-A - E 42 4 B 42 H5			
11 Durchmesserbereich:		2,5 bis 5,0 mm			
12 Hilfsstoffe:		---			
13 Die weitere Gültigkeit wird durch Erscheinen des Kennblattes im Schweißzusatzwerkstoffportal bescheinigt.					
15 Wärmebehandlung (Wb) nach dem Schweißen und Werkstoffe					
Pos	Wb	Gruppe / Werkstoff 1	Text	Gruppe / Werkstoff 2	Bem.
	U	Gruppe 1.1			
	U	Gruppe 1.2			
	U	Gruppe 1.3 (ReH max. 420 MPa)			
	U	Gruppe 2.1 (ReH max. 420 MPa)			
	U	Gruppe 3.1 (ReH max. 420 MPa)			
16 Die Werkstoffenteilung entspricht ISO 15608:2000					
21 Wurzelschweißbarkeit:		nachgewiesen			
23 Wanddicke:		maximal 50 mm			
24 Stromart und Polung:		G+			
25 Schweißposition nach DIN ISO 6947:		PA, PB, PC, PF			
26 Höchste Betriebstemperatur im Kurzzeitbereich wie Grundwerkstoff, jedoch max.:		450°C			
27 Höchste Betriebstemperatur im Langzeitbereich max.:		--- °C			
28 Tiefste Betriebstemperatur wie Grundwerkstoff, jedoch nicht tiefer als:		-40°C			
29 Berechnungskennwert:		wie Grundwerkstoff			
30 Bei Einsatz im Langzeitbereich:		---			
31 Korrosionsbeständigkeit nachgewiesen nach:		---			
32 Bemerkungen:					
33 Die Eignungsprüfung erfolgte auf der Grundlage des VdTÜV-Merkblattes 1153. Soweit in Rubrik 32 - Bemerkungen - nicht anders angegeben, ist dieser Schweißzusatz unter Beachtung des Anhangs I Abschnitt 4 der Druckgeräterichtlinie für den Einsatz nach Druckgeräterichtlinie geeignet.					
34 Erläuterungen		A - angelassen L - lösungsgeglüht u. abgeschreckt N - normalgeglüht	S - spannungsarm gegläht St - stabilgeglüht U - ungeglüht V- vergütet	W - weichgeglüht	G+ - Gleichstrom Pluspol G- - Gleichstrom Minuspol W - Wechselstrom
35 Erstellt durch:		TÜV Rheinland			
Die Vervielfältigung, die Verbreitung, der Nachdruck und die Gesamtwiedergabe auf fotomechanischem oder ähnlichem Wege bleiben, auch bei auszugsweiser Verwertung, der vorherigen Zustimmung des Herausgebers vorbehalten. Herausgeber: Verband der TÜV e. V. Vertrieb: TÜV-Media GmbH, Am Grauen Stein, 51105 Köln - Unternehmensgruppe TÜV Rheinland Group					



NIPPON KAIJI KYOKAI

Certificate

Certificate No.
NKY-2784

OF

TYPE APPROVAL FOR WELDING CONSUMABLE

Brand : GEKA LASER B47
Manufacturer : Gedik Kaynak Sanayi ve Ticaret A.S.
Pendik, Istanbul, Turkey
Kind : Coverd Electrode
Purpose : For High Tensile Steel
Approval Condition ;
Grade : KMW53Y40H10
Current : DCEP
Position : Flat, Horizontal, Vertical Upward and Overhead
Max. Dia. of Wire : F ; 5.0mm, H ; 5.0mm, VU ; 5.0mm,
OH ; 5.0mm
Welding Process : Manual Welding


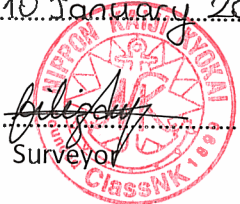






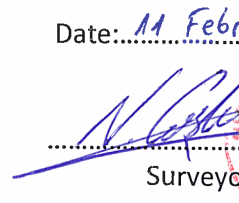
THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.

This Certificate will remain in force until the 29th day of May, 2009.
Issued at Tokyo on the 30th day of May, 2008.




H. Takano
General Manager
Material and Equipment Department

Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

<p>The validity of this certificate has been renewed until..... <u>09 January 2015</u>.....</p> <p>Date: <u>10 January 2014</u></p> <p>.....  Surveyor</p> 	<p>The validity of this certificate has been renewed until..... <u>28 December 2015</u>.....</p> <p>Date: <u>29 Dec 2014</u></p> <p>.....  Surveyor</p> 
<p>The validity of this certificate has been renewed until..... <u>27 December 2016</u>.....</p> <p>Date: <u>28 December 2015</u></p> <p>.....  Surveyor</p> 	<p>The validity of this certificate has been renewed until..... <u>01 FEBRUARY 2016</u>.....</p> <p>Date: <u>02 FEBRUARY 2017</u></p> <p>.....  Surveyor</p> 
<p>The validity of this certificate has been renewed until..... <u>17 January 2019</u>.....</p> <p>Date: <u>18 Jan. 2018</u></p> <p>.....  Surveyor</p> 	<p>The validity of this certificate has been renewed until..... <u>10 February 2020</u>.....</p> <p>Date: <u>11 February 2019</u></p> <p>.....  Surveyor</p> 
<p>The validity of this certificate has been renewed until.....</p> <p>Date:.....</p> <p>..... Surveyor</p>	<p>The validity of this certificate has been renewed until.....</p> <p>Date:.....</p> <p>..... Surveyor</p>
<p>The validity of this certificate has been renewed until.....</p> <p>Date:.....</p> <p>..... Surveyor</p>	<p>The validity of this certificate has been renewed until.....</p> <p>Date:.....</p> <p>..... Surveyor</p>