



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECHNOLOGIE UND PRÜFWESEN, A.G.
A.O. «ИНСТИТУТ ТЕХНОЛОГИИ РЕЗИНЫ И ИСПЫТАНИЙ»

Společnost je zapsána v obchodním rejstříku vedeném Krajským soudem v Brně, oddíl B, vložka 818



Zlín 12th May 2025

E8*75R00/20*1484*01

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6
4000 Kranj
SLOVENIA

Communication concerning the approval and notification of approval number and inspection report issued by Inspection body IGTT

Tyre type fully complies requirements of ECE/UN R75.

Enclosed you will find the Communication concerning the approval of your tyres according to ECE/UN Regulation No. 75

On the base of this approval you are entitled to produce in your factory tyres of the dimension:

100/90-19 MITAS ENDURO TRAIL+ E-07+ 57H

with the approval number : **E8 75R - 001484**

date of inspection : **12th May 2025**

inspector's name : **Václav Hořelka**

Sincerely yours,



Václav Hořelka
Head Of Tyre Approval Department
Head Of Inspection Body IGTT

**APPLICATION FOR EXTENSION OF A TYPE OF PNEUMATIC TYRE
FOR MOTORCYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

E8 75R – 001484

Reason: change of construction 2+2->2+0

4.1.1. Tyre size designation:	100/90-19
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL+ E-07+
4.1.3. The category of use:	SNOW
4.1.4. Structure (diagonal, bias belted, radial):	DIAGONAL
4.1.5. The speed category:	H
4.1.6. The load-capacity index of the tyre:	57
4.1.7. Tube type or Tubeless:	TUBELESS/TUBE TYPE
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motorcycle derivatives:	TREAD: 2 POLYESTER SIDEWALL: 2 POLYESTER
The overall dimensions	
4.1.10. overall section width:	Overall section width: 103,49 mm
overall diameter:	Overall diameter: 664 mm
4.1.11. The rims on which the tyre can be mounted:	2.15x19, 2.50x19, 2.75x19
4.1.12. The measuring rim and test rim:	2.50x19
4.1.13. The test and measurement pressure	Test pressure: 350 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	0.6
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	210 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

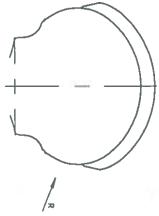
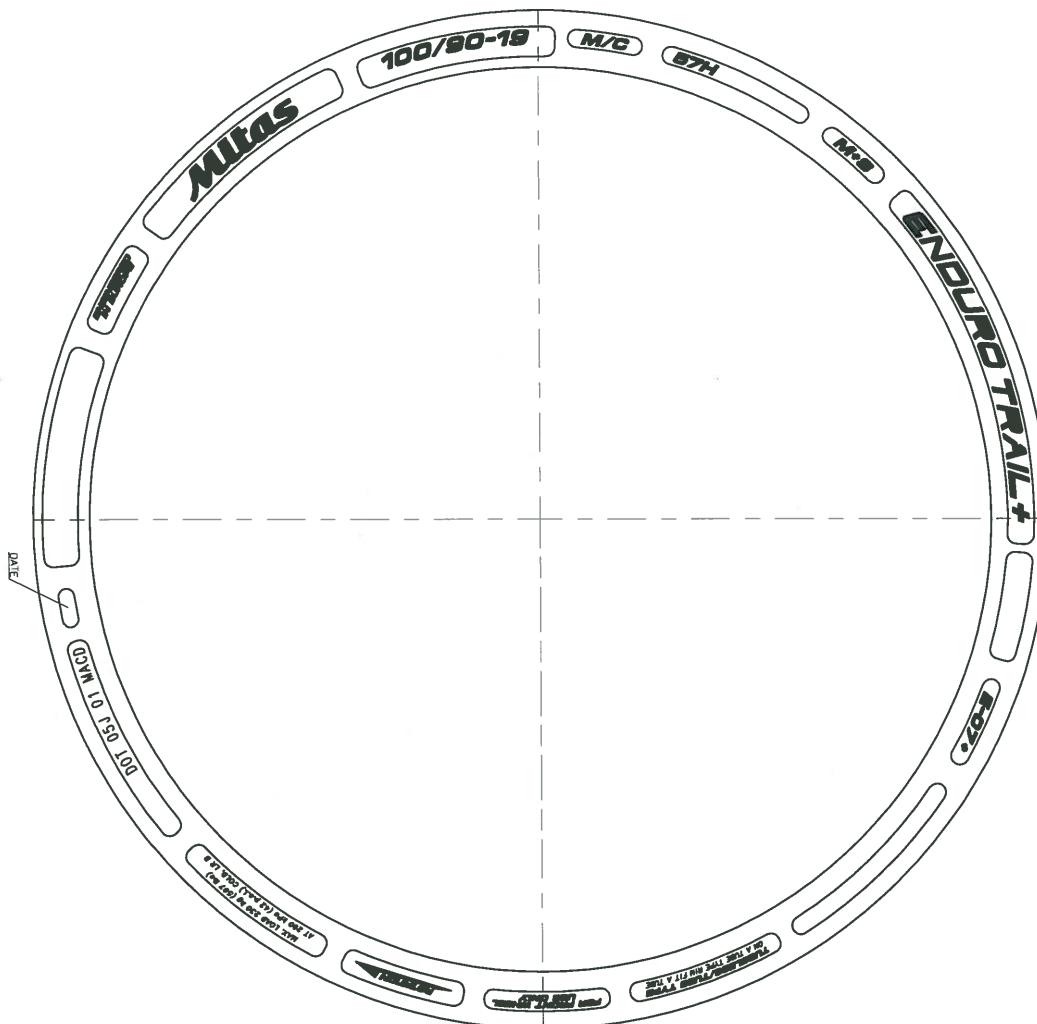
Tyre Manufacturer (2)

Reise Mitas Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140, India

Tyre Manufacturer (3)

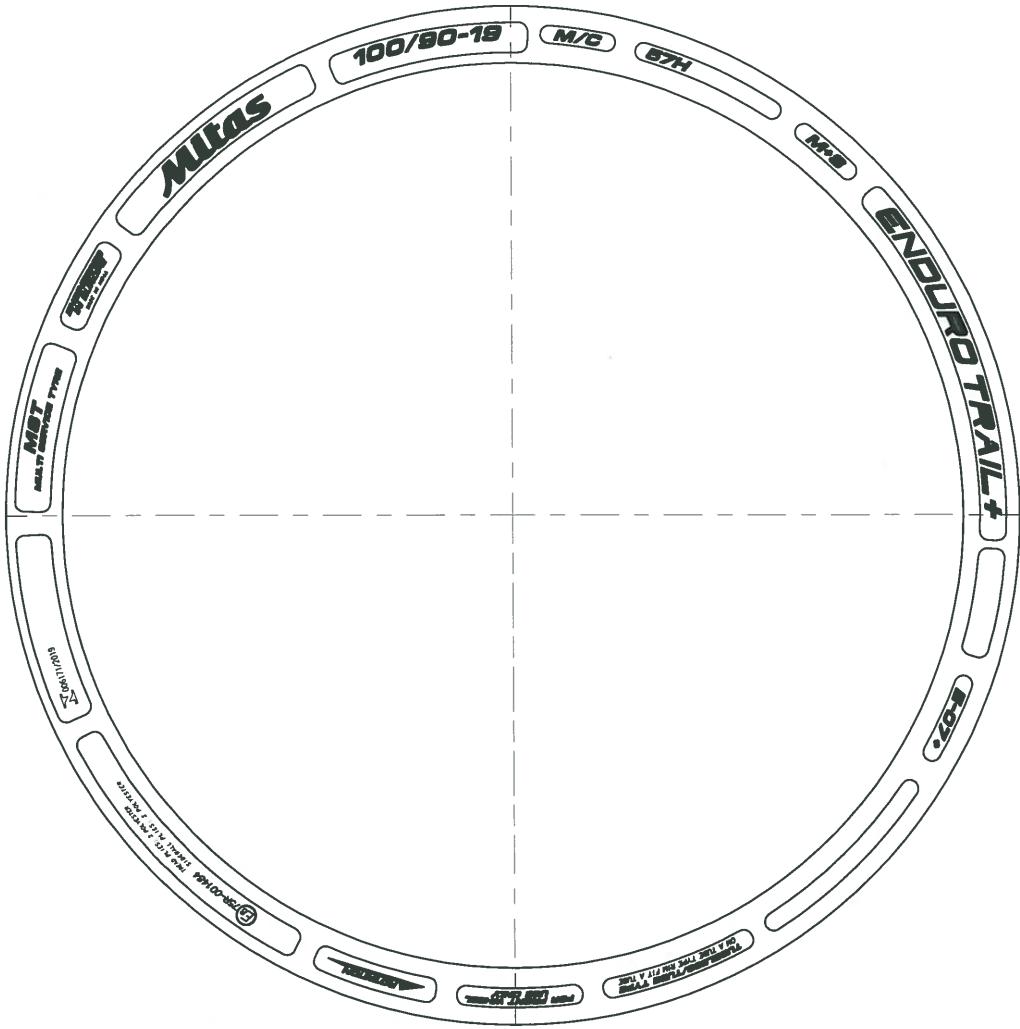
Yokohama TWS Czech Republic a.s.
Vavrečkova 7248
760 02 Zlin, Czech Republic



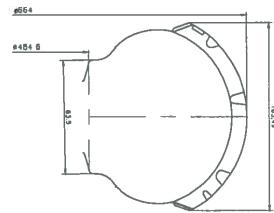
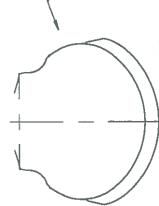


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14W9-19 5/17/17 ONSITE THUR. E-911 APP 150 ETC 125 ETC
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14W9-19 5/17/17 ONSITE THUR. E-911 APP 150 ETC 125 ETC

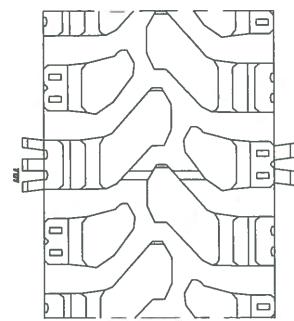
IGTT a.s.
Tyre Approval Department
Sternberská 446, Louky
763 02 Zlín, Czech Republic
IČ 271 46 1960 DIČ/VAT: CZ46900080



DISPOSITION ON TIRE - TOP HALF OF THE MOLD
(VIEW L)



CROSS SECTION OF MOUNTED TIRE



OVERALL (open) MITAS ENDURO TRAIL+ E-07+ TREAD PATTERN

IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ/ID 45400050 DIČNAT: CZ46900080

RMTL	REISE MITAS Tires LLP	Format No.	RMTL/QR/7.8/01
	(Testing Laboratory)	Issue No.	01
		Issue Date	05-01-2023
DOCUMENT NO	Plot No. 521. Saykha Industrial Estate , Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140	Amend. No.	01
RMTL /QR/01/2023		Amend. Date	10.07.2024

TEST REPORT

GENERAL DETAILS

Test Report No.	RMTL/RN/2025/RM24-094
Group:	Rubber & Rubber Product
Discipline :	Mechanical
Date of Issue	25-04-2025
Name of customer	Monika Macháčová
Address of customer	Research, Development & Quality Director, Mitas Motocycle Tires, Kranj, Slovenija
Contact details of customer Email ID	Monika.Machacova@mitas-tires.com
Customer Letter Ref No. / Email with date	MM24156
Date of Receipt of sample	24-06-2024
Other information like witness/ Third party /customer identification	70001499 V1-Change of construction 2+2→2+0
Date of test performed on	24-06-2024 to 05-07-2024
sample Description	TWO WHEELER TYRE
Sample Description	100/90-19 M/C 57H Mitas ENDURO TRAIL+ E-07+ TL/TT M+S MST
Condition of sample	LOOSE
Quality of sample received	GOOD
No of tyre received	6
Test sample manufactured by	REISE MITAS Tires LLP
Location of the manufacturing plant	521, Saykha Industrial Estate, Near Village Juned, Taluka Vagra, Dist-Bharuch. Gujarat. Pin -392140 INDIA

VRD
25/4/25
PRAKASH D RAO V
TECHNICAL MANAGER

Reviewed By

MECHANICAL LABORATORY

VIDYADHARA MULIBAIL
VIDYADHARA MULIBAIL
QUALITY MANAGER

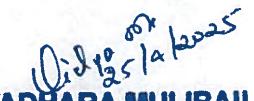
Authorized Signatory

Disclaimer:

1. Samples drawn and submitted by customer
2. The results reported only pertain to the sample submitted by the customer
3. This report shall not be reproduced except in full, without written approval of the laboratory
4. Samples tested as per standards mentioned by the laboratory
5. Statement of Conformity is as per applicable test methods used

1 OF 5



RMTL	REISE MITAS Tires LLP		Format No.	RMTL/QR/7.8/01
	(Testing Laboratory)		Issue No.	01
	Plot No. 521. Saykha Industrial Estate , Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (T) -392140		Issue Date	05-01-2023
DOCUMENT NO			Amend. No.	01
RMTL /QR/01/2023			Amend. Date	10.07.2024
Test Report No :		RMTL/RN/2025/RM24-094		
Date of Issue:		25-04-2025		
1	Details of tyres, Submitted/declared by the supplier			
Test standard	ECE R-75 (Cl.4)			
1.1	Tyre size designation		100/90-19 M/C	
1.2	Tyre Trade name and mark		Mitas ENDURO TRAIL+ E-07+	
1.3	The category of use (normal, special, snow or moped)		Special	
1.4	Structure: diagonal (bias ply), bias belted or radial		Bias ply	
1.5	Speed category		H/210 kmph	
1.6	Load capacity Index of the tyre/Maximum load carrying capacity (kg)		57/230	
1.7	Whether the tyre is to be used with or without an inner tube		Tubeless/Tubetype	
1.8	Whether the tyre is "normal" or "reinforced"		Normal	
1.9	The ply-rating number of tyres for motor cycle derivatives		Not applicable	
1.10	Overall width (mm)		76-127	
1.11	Overall diameter (mm)		663-684	
1.12	Rim on which tyres can be mounted		MT2.50X19",MT2.75X19",MT2.50X19"	
1.13	Measuring rim and test rim,		MT2.50X19",MT2.50X19"	
1.14	a.Inflation pressure corresponding to maximum load carrying capacity (kPa)		290	
	b.Test and measurement pressure (kPa)		350,290 and 280	
1.15	The factor X referred to in paragraph 2.19		0.60	
1.16	For tyres identified by means of letter code "V" within the size designation and suitable for speeds over 240 km/h or for tyres identified by means of letter code "Z" within the size designation and suitable for speeds over 270 km/h, the maximum speed permitted by the tyre manufacturer and the load carrying capacity allowed for that maximum speed.		NA	
 PRAKASH D RAO V TECHNICAL MANAGER				
Reviewed By		2 OF 5		Authorized Signatory
 VIDYADHARA MULIBAIL QUALITY MANAGER				

RMTL	REISE MITAS Tires LLP				
	(Testing Laboratory)				
	Plot No. 521. Saykha Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140				
DOCUMENT NO	TEST REPORT				
RMTL /QR/01/2023					
ULR No. :	TC1409325000000022F				
Test Report No. :	RMTL/RN/2025/RM24-094				
Date of Issue:	25-04-2025				
2	Marking				
Test standard	ECE R-75 (Cl. No-3)				
Sample ID :	RM24-094-01				
S.No	Specific tests performed	Unit of measurement	Min Req.	Observed value	Remark
2.1	Diameter of circle	mm	8	11	-
2.2	Height of letter E	mm	4	6	-
2.3	Height of number	mm	3	4	-
2.4	Height of text 75R....	mm	3	4	-
2.5	Size designation	mm	4	9	-
2.6	Structure (diagonal/bias belted/radial)	Visual	Shall be marked	"."	-
2.7	Trade name	Visual	Shall be marked	Mitas ENDURO TRAIL+ E-07+	-
2.8	Speed category	mm	4	6	-
2.9	Load capacity	mm	4	6	-
2.10	Ply rating	Visual	Shall be marked	-	-
2.11	Tubeless/Tubetype	mm	4	3.3	-
2.12	REINFORCED or REINF	Visual	Shall be marked	-	-
2.13	M+S or M.S or MaS	Visual	Shall be marked	M+S	-
2.14	MST	Visual	Shall be marked	MST	-
2.15	Date of production (wwyy)	mm	4	5	-
2.16	M/C	mm	4	6	-
2.17	MOPED or CYCLOMOTEUR	Visual	Shall be marked	-	-
2.18	(W) for SS>270km/h	Visual	Shall be marked	-	-
2.19	Running rotation	Visual	Shall be marked	Available	-
2.20	Visible defects or damages	Visual	Shall be marked	No	-
2.21	QC check mark	Visual	Shall be marked	Available	-
2.22	Manuf.name or country	Visual	Shall be marked	MADE IN INDIA	-
2.23	TWI markings	Nos.	Shall be marked	Available(4 nos)	-
2.24	DP	Visual	Shall be marked	-	-
2.25	NHS	Visual	Shall be marked	-	-

Technical drawing of a tire tread pattern with dimensions: a = 8 mm min, d = 3 mm min, b = 100/80, B = 18, and 53 S b. It also shows a tubeless marking b TUBELESS M+Sb and a date b = 2503.

*VP20
25/4/2025*

PRAKASH D RAO V
TECHNICAL MANAGER

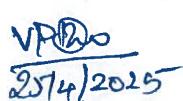
Didge 25/4/2025

VIDYADHARA MULIBAI
QUALITY MANAGER

Reviewed By

3 OF 5

Authorized Signatory

RMTL	REISE MITAS Tires LLP				  TC-14093	
	(Testing Laboratory)					
	Plot No. 521, Saykha Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140					
DOCUMENT NO	TEST REPORT					
RMTL /QR/01/2023						
ULR No. :	TC1409325000000022F					
Test Report No :	RMTL/RN/2025/RM24-094					
Date of Issue:	25-04-2025					
3	Tyre Dimensions					
Sample ID :	RM24-094-01					
Test standard	ECE R-75 (Cl No-6)					
S.No	Specific tests performed		Unit of measurement	Standard Specification requirement	Observed Values	Remark
3.1	Rim Size		Inch	MT2.50X19"	MT2.50X19"	-
3.2	Inflation pressure		kPa	280	280	-
3.3	Conditioning temperature		Degree	20-30	27.9	-
3.4	Conditioning Duration		hr	24	24	-
3.5	Maximum overall width of tyre		mm	76-127	103.49	-
3.6	Overall diameter		mm	663-684	664.0	-
U.pressure:-±0.38%,U.OD:-±0.31%,U.Width:-±0.13%						
U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%						
4	Load / speed performance test					
Test standard	ECE R-75(Cl. No-6.2)					
Sample ID :	RM24-094-04					
4.1	Test condition: Smooth wheel diameter(m) : 1.7 Condition duration(hr) : Min 3 Condition temperature (°C): 20-30 Test room temperature(°C) : 20-30 Test Inflation pressure(kPa) :350 Test load (kg) : 150 Test Rim : MT2.50X19"					
	Step	Speed (km/hr)	Durations (minutes)	Room temp. (°C)		
	1	0-170	0-20	26		
	2	170	10	25		
	3	180	10	25		
	4	190	10	25		
	5	200	10	25		
4.2	Initial Diameter			mm	663-684	664.0
	Final Diameter when measured at least six hours after test				663-684	667.5
	% Change in outer diameter of tyre, Measured after 6 hours			%	Max ±3.5	0.5
4.3	Initial overall width Overall width at the end of test			mm	76-127	104.1
					76-127	104.3
U.pressure:-±0.38%,U.OD:-±0.31%,U.Width:-±0.13%						
U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%						
 PRAKASH D RAO V TECHNICAL MANAGER						
Reviewed By	4 OF 5					Authorized Signatory
 VIDYADHARA BULIBAIL QUALITY MANAGER						

RMTL	REISE MITAS Tires LLP (Testing Laboratory) Plot No. 521. Saykha Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140			  TC-14093			
	DOCUMENT NO RMTL /QR/01/2023	TEST REPORT					
	ULR No. : TC1409325000000022F	Test Report No : RMTL/RN/2025/RM24-094	Date of Issue: 25-04-2025				
5	Dynamic Growth of the tyre:						
Test standard ECE R-75 (CI No:-6.3)							
Sample ID : RM24-094-04							
S.No	Specific tests performed	Unit of measurement	Standard Specification requirement	Observed Values		Remark	
5.1	Test condition: Test inflation pressure : 290 kPa Speed category symbol - H Maximum Speed - 210 kmph Rim Diameter(D) -19 inch <u>Calculation of Overall width :-</u> $S = S1 + K(A-A1)$ Nominal Section Width(S1)-100 mm Width of measuring Rim(A) -2.50 inch = 2.50×25.4 mm = 63.5mm Factor X = 0.60 K=0.4 $A1=S1 \times \text{Factor X} = 100 \times 0.60 = 60$ mm $S=100+0.4 (63.5 - 60) = 101.4$ mm						
	Tyre section-width specifications:- 1. For normal and snow service: (a) rim diameter code 13 and above: +10 per cent (b) rim diameter codes up to 12 inclusive: +8 per cent 2. For special service tyres which are suitable for limited road use and are marked MST: 25 per cent.						
	$S_{min}=S - (S \times 25\%) = 101.4 - (101.4 \times 0.25) = 76.05$ (Nearest to 76 mm) $S_{max}=S + (S \times 25\%) = 101.4 + (101.4 \times 0.25) = 126.75$ (Nearest to 127 mm)						
	Overall width Specification - 76 to 127 mm						
	<u>Calculation of centrifugal Radius :-</u> Nominal sectional height (H) = Nominal sectional width * Aspect ratio => $100 \times 90\% = 90$ mm $H_{dyn} = H \times 1.18 = 90 \times 1.18 = 106.2$ mm Centrifugal radius = $H_{dyn} + D / 2 = 106.2 + (19 \times 25.4) / 2 = 347.5$ mm						
	Step	Speed (km/hr)	Durations (min)	mm	Maximum Centrifugal radius	Centrifugal radius at Test Speed	-
	1	0-210	5		347.5	340.1	
	2	210	5				
	5.2	Maximum overall width (SG) at test speed		mm	76-127	97	-
	U.speed:- $\pm 0.32\%$, U.pressure:- $\pm 0.38\%$, U.OD:- $\pm 0.31\%$, U.Width:- $\pm 0.13\%$ U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%						
Conclusion	The above subject, size:-100/90-19 M/C 57H ENDURO TRAIL+ E-07+ TL/TT M+S MST tests carried out as per ECE R75.						

V P D RAO
25/4/2025

PRAKASH D RAO V
TECHNICAL MANAGER

25/4/2025

VIDYADHARA MULIBAIL
QUALITY MANAGER