



2017
GP JUNIORS AUSTRALIA SERIES
and
GP JUNIORS CUP

SUPPLEMENTARY REGULATIONS

Version 10
7 June 2017

Conducted under the jurisdiction of Motorcycling Australia

ROUND 1*	17-19 March 2017	Wakefield Park Raceway Goulburn, NSW	MA Permit: 1832	Track Licence: 21040
Race Secretary:	Denise Stronach	Clerk of Course:	Tom Williams	Steward: Peter Smith
Series Scrutineer:	Kevin Hartup	Rider Liaison:	Chris Baker	
Contact:	Liz Galazkiewicz - Motorcycling Australia 03 9684 0503 roadrace@ma.org.au			
ROUND 2*	28-30 April 2017	Winton Motor Raceway Benalla, VIC	MA Permit: 1833	Track Licence: 240815
Race Secretary:	Denise Stronach	Clerk of Course:	Tom Williams	Steward: Peter Smith
Series Scrutineer:	Kevin Hartup	Rider Liaison:	Chris Baker	
Contact:	Liz Galazkiewicz - Motorcycling Australia 03 9684 0503 roadrace@ma.org.au			
ROUND 3	17-18 June 2017	Morgan Park Raceway Warwick, QLD	MA Permit: TBC	Track Licence: 180916
Race Secretary:	Rachelle Houterman	Clerk of Course:	TBC	Steward: Gregg Smith
Series Scrutineer:	Kevin Hartup	Rider Liaison:	Chris Baker	
Contact:	Mark Bracks - GPJA 0488 257 188 gpjuniorsaustralia@gmail.com			

ROUND 4	5-6 August 2017	Wakefield Park Raceway Goulburn, NSW	MA Permit: TBC	Track Licence: 21040
Race Secretary: TBC		Clerk of Course: TBC	Steward: TBC	
Series Scrutineer: Kevin Hartup		Rider Liaison: Chris Baker		
Contact: Mark Bracks - GPJA		0488 257 188 gpjuniorsaustralia@gmail.com		

ROUND 5*	25-27 August 2017	Morgan Park Raceway Warwick, QLD	MA Permit: 1835	Track Licence: 180916
Race Secretary: Denise Stronach		Clerk of Course: Tom Williams	Steward: Peter Smith	
Series Scrutineer: Kevin Hartup		Rider Liaison: Chris Baker		
Contact: Liz Galazkiewicz - Motorcycling Australia		03 9684 0503 roadrace@ma.org.au		

ROUND 6	11-12 November 2017	Broadford State Motorcycling Complex Broadford, VIC	MA Permit: TBC	Track Licence: TBC
Race Secretary: Denise Stronach		Clerk of Course: Tom Williams	Steward: TBA	
Series Scrutineer: Kevin Hartup		Rider Liaison: Chris Baker		
Contact: Mark Bracks - GPJA		0488 257 188 gpjuniorsaustralia@gmail.com		

ROUND 7	24-26 November 2017	Mallala Motorsport Park Mallala, SA	MA Permit: TBC	Track Licence: TBA
Race Secretary: TBC		Clerk of Course: TBC	Steward: TBC	
Series Scrutineer: Kevin Hartup		Rider Liaison: Chris Baker		
Contact: Mark Bracks - GPJA		0488 257 188 gpjuniorsaustralia@gmail.com		

* GP Juniors Cup to run as a support class to the Australian Superbike Championship (ASBK)

1. ANNOUNCEMENT

The GP Juniors Australia, in conjunction with the Australian Superbike Championship (ASBK), Preston MCC, Motorcycle Sportsmen of Queensland, St. George MCC and Phoenix MC, hereafter called the PROMOTERS, will conduct The GP Juniors Australia Series for Nippers 70cc, Junior 2-stroke 85cc, Junior 4-stroke up to 160cc and the GP Juniors Cup on the following dates and at the following locations.

Round 1	17-19 March 2017	Wakefield Park Raceway	GP Juniors Cup
Round 2	28-30 April 2017	Winton Motor Raceway	GP Juniors Cup
Round 3	17-18 June 2017	Morgan Park Raceway	GP Juniors Australia Series and GP Juniors Cup
Round 4	5-6 August 2017	Wakefield Park Raceway	GP Juniors Australia Series and GP Juniors Cup
Round 5	25-27 August 2017	Morgan Park Raceway	GP Juniors Cup
Round 6	11-12 November 2017	Broadford State Motorcycling Complex	GP Juniors Australia Series and GP Juniors Cup
Round 7	24-26 November 2017	Mallala Motorsport Park	GP Juniors Australia Series and GP Juniors Cup

2. JURISDICTION

2.1 The above-mentioned meetings have been Authorized by Motorcycling Australia which has issued the Permit Numbers as listed on the cover of these Supplementary Regulations and is open to holders of current Motorcycling Australia Junior National Licenses and MNZ License holders who hold valid start permissions from Motorcycling New Zealand. An International Meeting Number (IMN) will be required for the event if there are one or more competitors from Federations other than MNZ and MA. Once the IMN is required, all competitors that do not hold a Motorcycling Australia licence will require an FIM licence and a start permission from their respective FMN.

2.2 The meetings will be held in accordance with the current General Competition Rules (GCR's) contained in the 2017 Manual of Motorcycle Sport, these Supplementary Regulations, and any final instructions approved by Motorcycling Australia. By entering these meetings all parties agree to comply with these rules, regulations, by-laws and instructions.

3. EVENT OFFICIALS

The following GPJA officials will be overseeing the meeting on the GPJA's behalf. The Event Promoter/s will provide a full list of officials in their Supplementary Regulations:

Rider Liaison	Chris Baker
GPJA Series Scrutineer	Kevin Hartup

4. ENTRIES

4.1 The entry open and closing dates are listed below:

Round	Open Date	Closing Date	Method
1	15 February 2017	3 March 2017	ASBK.com.au
2	20 March 2017	7 April 2017	ASBK.com.au
3	TBC	TBC	TBC
4	TBC	TBC	TBC
5	10 July 2017	4 August 2017	ASBK.com.au
6	TBC	TBC	TBC
7	TBC	TBC	TBC

4.2 In the case of postponement or abandonment of a meeting, all or any part of the entry fee may be retained by the promoter, if such retention is approved by the Governing Body.

4.3 Only entries received on the official entry form that is accompanied by the correct fee will be accepted.

NOTE:- LATE ENTRIES MAY INCUR A LATE ENTRY FEE. THIS WILL BE ADVISED BY EACH EVENT PROMOTERS' SUPPLEMENTARY REGULATIONS.

5. ENTRY FEE

5.1 The entry fee for each round will be advised in the Supplementary Regulations of the event promoter.

5.2 The entry for each round will advise of garage hire costs. Any additional fee for garages/carports will be a direct result of track requirements/costs.

5.3 Payment methods as per the event promoters' Supplementary Regulations.

5.4 Cheques and Money Orders are to be made payable to each event promoter as advised in the event entry forms.

NOTE:- LATE ENTRIES MAY INCUR A LATE ENTRY FEE. THIS WILL BE ADVISED BY EACH EVENT PROMOTERS' SUPPLEMENTARY REGULATIONS.

6. ENTRY PASSES

The number of entry passes provided to each competitor will be advised in the entry forms for each event supplied by the event promoters.

7. INSURANCE

7.1 National Personal Accident Scheme (as per GCR's) provides basic cover for death and permanent disability.

7.2 Ambulance Insurance is compulsory for licensees.

It is strongly recommended that competitors give consideration to taking out weekly benefits insurance.

8. MEDICAL SERVICES

Professional Ambulance Services will be in attendance from the commencement of any on-track activity until 30 minutes after the completion of the last on-track event. Further details provided in the Supplementary Regulations provided by each promoter.

9. SCRUTINEERING

9.1 Scrutineering will begin as per the Supplementary Regulations supplied by each event promoter.

9.2 Machines entered in the competition must have successfully passed a machine examination prior to taking part in practice, qualifying or racing. A decal will be placed on the front number plate to indicate that it has been successfully examined.

9.3 Current competition licenses and full riding gear must be presented at scrutineering. Eligibility checks can take place at any time during the meeting. Machines that suffer accident damage in practice, qualifying or race sessions must be re-examined before participating again.

9.4 In addition to supervising the pulling down and checking of machines after official protests have been received by the Clerk of Course in accordance with the GCRs, the Steward can order that any machine be measured and if this occurs the Scrutineer will supervise a team member to pull down any machine that has taken part in the event. Failure to comply with this regulation will result in this matter being referred to the Clerk of Course for further action.

9.5 Machines competing in GP Juniors Australia will not be sealed for later checking after the event. All machines that are to be pulled down and scrutineered will take place at the circuit before the machine is released by the Scrutineer. A member of the rider's team must be available at all times to carry out the strip down under the control of the Scrutineer. Failure to comply with this regulation will result in this matter being referred to the Clerk of Course for further action.

9.6 Please refer to the Appendix A: GP Juniors Cup Technical Specifications regarding the sealing of engines

9.7 Capacity and fuel testing may be utilised by the Scrutineer at any round to assist with machine eligibility.

10. SPONSOR DECALS GP JUNIORS AUSTRALIA

10.1 Competitors are required to display two (2) Motorcycling Australia (MA) decals on the front screen with one on either side of the number plate

10.2 Competitors are required to display two (2) GP Juniors decals on the front screen with one on either side of the number plate

10.3 11.3 Competitors are required to display (2) GP Juniors decals on the fairings

11. SPONSOR DECALS GP JUNIORS CUP

11.1 Competitors are required to display two (2) Motorcycling Australia (MA) decals on the front screen with one on either side of the number plate.

11.2 Competitors are required to display two (2) GP Juniors decals on the front screen with one on either side of the number plate

11.3 Competitors are required to display (2) GP Juniors decals on the fairings

11.4 Competitors are required to display a GP Juniors decal on their leathers. The two options are mid-back or front right shoulder.

12. CLASSES OF COMPETITION

Nippers	Up to 70cc 2-stroke machines as per 2017 GCR's. Competitors must be aged from 9 years to under 12 years as at January 1, 2017.
Junior 2/	Up to 85cc 2-stroke machines as per 2017 GCR's. Competitors must be aged from 12 years to under 16 years as at January 1, 2017. This class will constitute the GP Juniors Australian Championship
Junior 4/	Up to 160cc 4-stroke machines as per 2017 GCR's. Competitors must be aged from 12 years to under 16 years as at January 1, 2017. This class will constitute the GP Juniors Australian Championship
GP Juniors Cup	For 2017 the Yamaha R15 V2.0 150cc machine is the only machine eligible for competition in the GP Juniors Cup. Please refer to Appendix A: GP Juniors Cup Technical Specifications for machine eligibility.

13. ENTRIES TO CONSTITUTE A CLASS

13.1 To constitute a class for the purpose of gaining Championship status, the number of contestants entered and competing in each class shall be:

Junior 2/ : 10 or more starters for Junior solo classes who actually participate in practice, qualifying, or races

Junior 4/ : 10 or more starters for Junior solo classes who actually participate in practice, qualifying, or races

13.2 Should there be insufficient entries in any class of competition, the decision to run or cancel the class, or to combine events and re-distribute any awards and/or prizes, will be at the discretion of the GP Juniors Australia, the Promoting Club and subject to approval by the Governing Body.

14. STARTS

All starts will be by clutch. Where lights are in place, the start will be when the red light is extinguished. Where no lights are in place, the start will be by the raising of the Australian flag; as specified in Supplementary Regulations provided by the event promoters.

15. FLAGS AND SIGNALS

As per the 2017 GCRs

16. RACE FORMAT

Each class of competition shall participate in official practice, qualifying and racing. The final number of practice sessions, qualifying sessions and the length of the races will be advised in each Event Promoters' Supplementary Regulations.

Points score format will be as per **2017 GCRs**

Ties on overall placing at all Rounds will be decided as per **2017 GCRs**

Ties in overall series results will be decided as per **2017 GCRs**

16.1 MAC POINTS. MAC stands for Marketability, Attitude and Character. Points will be awarded to junior participants who demonstrate these qualities to promote the appropriate sporting behavior in-line with a professional career in motorcycle racing.

The points will be awarded by three GPJA appointed judges. Judges will be appointed at each round.

At each round points awarded will be as follows:

1st = 5 points

2nd = 4 points

3rd = 3 points

4th = 2 points

5th = 1 point

MAC points do not effect series points.

17. EVENT SCHEDULE

The timetable for each individual round will be notified in the Final Instructions

For the purpose of drug and alcohol testing, the commencement of the meeting will be deemed to be the start of scrutineering, with the completion of the meeting for the participant being when the participant has vacated the venue as per the Supplementary Regulations provided by the event promoters.

18. AWARDS

Trophies will be awarded to the top three point scorers in each class (excluding MACs points). Awards will be based on accumulative point scores for each class of competition. Series award will be presented at the conclusion of the final round.

19. PRESENTATIONS

Presentation of awards for each Round shall take place after the final event of that particular Round.

20. MACHINES AND RIDERS

20.1 All machines entered must comply with the current GCRs for Junior Road Race competition

20.2 Multiple entry of the one machine in the same class of competition is not permitted

20.3 Any machine may be inspected during the event to ensure its legality at the GP Juniors Australia promotor's discretion

20.4 Only in the event of crash damage or major engine failure occurring, a spare machine may be used or leased through GP Juniors (dependent upon availability) if the competitor's primary machine cannot be repaired safely in the available time. This machine will need to be scrutineered prior to competing in the next race.

20.5 Any change of machine must be requested through the Race Secretary and approved by the Clerk of Course at least 60 minutes prior to the race commencing.

21. RIDING NUMBERS

21.1 Wherever possible, competitors will be allocated their preferred riding number. All others will be allocated numbers at the GPJA's discretion. Competitors may register a number with the GPJA prior to the commencement of the series on www.gpjuniorsaustralia.com.au. This registration will ensure that the registered number will be issued for each round in all States. GPJA registered numbers will be given preference where possible.

21.2 All number plates on all machines **MUST** comply with the GCRs and must not contain any decals or advertising other than the required MA decal.

22. GRID POSITIONS

Grid positions for all races in each class will be determined by official qualifying. The Clerk of the Course may re-grid a rider for safety reasons. The grids will either be "static" or "progressive" – and will be announced in each Event Promoters' Supplementary Regulations.

23. RIDERS' BRIEFING

A riders' briefing will be held prior to the commencement of practice and racing, which ALL competitors and a parent/guardian in the case of Junior and Nipper competitors, **MUST** attend. Details will be included in the final instructions issued by each Event Promoter.

24. CIRCUIT DESCRIPTION

Rd 1 –Wakefield Park Raceway is a bitumen sealed circuit with a track length of 2.2km, all racing will be in a clockwise direction

Rd 2 – Winton Motor Raceway is a bitumen sealed circuit with a track length of 3.0 km, all racing will be in a clockwise direction

Rd 3 - Morgan Park Raceway is a bitumen sealed circuit with a track length of 2.96km, all racing will be in a clockwise direction

Rd 4 – Wakefield Park Raceway is a bitumen sealed circuit with a track length of 2.2km, all racing will be in a clockwise direction

Rd 5 - Morgan Park Raceway is a bitumen sealed circuit with a track length of 2.96km, all racing will be in a clockwise direction

Rd 6 - Broadford State Motorcycle Complex is a bitumen sealed circuit with a track length of 2.16km, all racing will be in a clockwise direction

Rd 7 - Mallala Motorsport Park is a bitumen sealed circuit with a track length of 2.6km, all racing will be in a clockwise direction

25. TRACK INSPECTION

All competitors will be required to attend a track walk as instructed. The inspection must be done on foot and competitors are reminded that service vehicles may be in operation on the circuit at this time.

25.1 TRACK DISSATISFACTION

Competitors who are not satisfied with any aspects of the track can present these concerns to the Clerk of Course if those concerns cannot be resolved, the competitor will be invited to withdraw from the meeting.

26. FACILITIES

Facilities available at each round will be advised in the Final Instructions released by the event promoter

27. NOISE

All machines must comply with the relevant GCR.

Noise testing may take place at any time at the discretion of the Chief Scrutineer or the Clerk of Course. Refer to the 2017 Manual of Motorcycle Sport for details.

28. TYRES

28.1 Tyres for Nippers, Juniors 2-stroke and Juniors 4-stroke are as per MoMS

28.2 Tyres for GP Juniors Cup will be of a controlled nature with one approved for competition.

28.3 Tyre warmers and wet weather tyres for GP Juniors Cup will not be permitted.

28.4 One set of tyres is permitted per competitor for the GP Juniors Cup during the course of the race weekend (Saturday and Sunday) including qualifying, warmup and races. Marked tyres can be used from previous rounds providing they are not worn to the minimum tread depth indicators. The tyres are required to be marked, and recorded, by GP Juniors Australia prior to official qualifying commencing. Either new or second hand marked or unmarked control tyres must be used for the Friday nonqualifying practice sessions.

28.5 Refer to Appendix A: GP Juniors Cup Technical Specifications for more information regarding the GP Juniors Cup control tyre

29. GP JUNIORS CUP

A complete list of technical specifications accompany these Supplementary Regulations in Appendix A

30. ANTI-DOPING POLICY

30.1 All competitors, mechanic and officials are advised that drug testing may take place in accordance with MA's Anti-Doping Policy, as carried out by the Australian Sports Anti-Doping Authority. Refer to the Motorcycling Australia website for details.

30.2 If any doubts exist over banned substances it is recommended competitors contact the Drugs in Sport Hotline, Ph 1800 020 506. When drug testing takes place, the awarding of prizes may be delayed at Motorcycling Australia's discretion until the results of the tests are known.

31. DRUG AND ALCOHOL TESTING

All competitors, mechanic and officials are advised that random drug and alcohol testing may take place during the competition. Refer to the Motorcycling Australia website for details on the Safety Policy - Drug and Alcohol Testing.

32. CODES OF BEHAVIOR

All competitors, mechanics, officials, parents and support crew are reminded of MA's Code of Conduct contained within MA's Member Protection Policy, found at www.ma.org.au, which is a guide to appropriate behavior at all motorcycle race meetings. The Code of Conduct applies to this series and will be enforced.

33. FIRE EXTINGUISHERS

All riders should have a minimum 2kg, dry powder A:B (E) class, working fire extinguisher in their pit area.

34. ELECTRONIC COMMUNICATIONS AND SOCIAL MEDIA

All competitors, mechanics, officials, parents and support crew are reminded of MA's Electronic Communications and Social Media Policy, found at www.ma.org.au, which sets out a framework for acceptable online behavior where communications involve fellow MA members, volunteers, officials, coaches, sponsors, partners, staff and any other connected persons.

35. ADMISSION CHARGES

Admission prices for each round will be notified in the Final Instructions released by the event promoter.

36. DISCIPLINE SPECIFIC INFORMATION

36.1 Body Piercing: Any body piercing must be removed or covered with tape.

36.2 Hair longer than shoulder length must be tied up and/or tucked inside helmet or leathers.

37. EAR PLUGS

All junior competitors must wear ear plugs.



Appendix A: GP Juniors Cup Technical Specifications

2017 GP Juniors Cup Technical Specifications

1 MACHINE ELIGIBILITY

- 1.1 Current specification Yamaha R15 V2.0 machines only.
- 1.2 A competitor can only present one machine for scrutineering. It is the intention that this machine be used for the entire duration of the event. *The machines engine must be inspected by an MA approved examiner for eligibility, and sealed prior to competition.*
- 1.3 Only in the event of crash damage or major engine failure occurring, the Technical Director may give permission for a spare machine to be used if the competitor's primary machine cannot be repaired safely in the available time. This machine will need to be scrutineered prior to competing in the next race.
- 1.4 Any additional modifications not outlined below are prohibited, unless authorised by the Technical Director
- 1.5 All machines must be fitted with Australian Design Rule (ADR) compliance plates for that particular machine.
- 1.6 All machines entered must comply with the current Manual of Motorcycle Sport for Road Racing competition and any additional requirement as listed below.

2 TYRES

- 2.1 The control tyres for the GP Juniors Cup are as follows:
Bridgestone 90/80-17 BT39SS FRONT
Bridgestone 130/70-17 BT39 REAR
All tyres to be purchased through GP Juniors Australia at \$246 per set, incl GST.
Contact Mark Bracks - 0488 257 188 | gpjuniorsaustralia@gmail.com
- 2.3 Wet slick type tyres are prohibited.
- 2.4 The use of tyre warmers is prohibited.

3 COMPULSORY MODIFICATIONS

- 3.1 The following must be removed:
 - a) Head lamp,
 - b) Tail lamp,
 - c) Reflectors,
 - d) Horn,
 - e) Traffic indicators,
 - f) Mirrors,
 - g) Side stand,
 - h) Registration plate / bracket and label holder,
 - i) Passenger footrests.

4 PERMITTED MODIFICATIONS

4.1 The following is provided in the race kit however if replacement is required other manufacturers variants may be used provided the specification is the same as the kit part provided or otherwise specified;

- a) Cowling, screen, rear body work and seat section, mudguards and tank covers. (Make and specification as supplied in race kit only),
- b) Spark plug type,
- c) External gearing and chain, (but not chain pitch), (Specification as supplied in race kit only),
- d) Brake pads, and brake hoses,
- e) Exhaust system, (Make and specification as supplied in race kit only),
- f) Handlebars, handlebar ends and grips,
- g) Footrests and foot controls, (Make and specification as supplied in the race kit only),
- h) Rear race stand locating lugs, (Make and specification as supplied in race kit only),
- i) Engine and gearbox breather tubes and the radiator bottle overflow must exhaust into the air box to the rear of the intakes. The lower air box breather tubes must be blocked.

4.2 The following may be removed:

- a) OEM top rear chain guard,
- b) Left handlebar switch.

5 PERMITTED ADDITIONS

5.1 The following may be added:

- a) Frame protective sliders,
- b) Front brake lever protectors

6 COMPULSORY ADDITIONS

6.1 Engine case protectors (Make and specification as supplied in race kit only)

7 ELECTRONIC CONTROL UNITS (ECUs)

7.1 All electronic control units remain the property of GP Juniors Australia, Motorcycling Australia and Yamaha Motor Australia

7.2 All ECUs are to remain standard. No "flashing" is permitted

7.3 The promoter has the right to change ECUs at any time, including between different bikes. The promoter has the right to inspect any ECU for modification at any time

7.4 No manual adjustments are allowed to advance the firing of the cylinder to increase performance

7.5 All machines entered must comply with the current Manual of Motorcycle Sport for Road Racing competition

7.6 The Yamaha R15 is to remain completely standard as delivered with necessary modifications for racing as detailed in the MoMS. Refer to the class technical specification sheet for machine eligibility

7.7 Standard OEM wiring harness must be retained and operative

8 ADDITIONAL REGULATIONS

8.1 Lap timers and data recording units are prohibited.

8.2 All nuts bolts and fasteners including axle and swing arm pivot bolts must remain as per OEM specification. Any change to OEM material used is prohibited.

8.3 Other than for safety lock wiring as per the GCR's, drilling of bolts is prohibited.

8.4 Standard OEM ECU must be retained and re-flashing of the ECU is prohibited.

Note: Any rider competing in the R15 GP Junior Cup may be requested to exchange ECUs before or between races, at the discretion of the Technical Director or Series Chief Scrutineer.

8.5 OEM wiring harness and instruments must be retained and any modification is prohibited. The software program of any ECU may be checked in the presence of the rider/owner at any time before, during and after the races.

8.6 Removal of intake snorkel or modification of the air cleaner housing including lid is prohibited

8.7 Additional modifications to the ignition, fuel or induction systems are prohibited. These systems must remain as originally manufactured by the OEM.

8.8 Plug-in fuel metering devices are prohibited.

8.9 Engine or transmission modifications are prohibited. Engine and transmission must remain as manufactured by the OEM.

8.10 Front and rear suspension must be as per OEM specification and any modifications are prohibited.

Note: Front fork oil "level" and viscosity can be changed.

8.11 Any modification to the chassis, swing arm or suspension linkage is prohibited.

8.12 Transmission speed shifters are prohibited.

8.13 Any modification to the cooling system is prohibited.

8 ADDITIONAL REGULATIONS CONTINUED

- 8.14 Removal or modification of any components or parts other than what is specified in the class rules is prohibited.
- 8.15 The electric starter motor must be retained and functional.
- 8.16 OEM hard parts must be used for the purpose of reconditioning the machines engine or chassis.
- 8.17 The right handlebar switch incorporating the engine cut and starter switch must be retained and functional.
- 8.18 OEM Air Induction System must be retained and functional.
- 8.19 OEM specification battery must be retained.
- 8.20 OEM triple clamps and steering head bearings must be retained.
- 8.21 Wheels must be as OEM supplied.
- 8.22 Front and Rear disc's must be as OEM supplied.
- 8.23 Front and Rear brake master cylinders must be as OEM supplied.
- 8.24 Front and Rear brake callipers must be as OEM supplied.