



30 November 2022  
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P.U. (B) 590

WARTA KERAJAAN PERSEKUTUAN

*FEDERAL GOVERNMENT  
GAZETTE*

PEMBERITAHUAN PERMOHONAN  
PENDAFTARAN VARIETI BARU TUMBUHAN DAN  
PEMBERIAN HAK PEMBIAK BAKA (MSTAR 1)

*NOTIFICATION OF APPLICATION  
FOR REGISTRATION OF NEW PLANT VARIETY AND  
GRANT OF BREEDER'S RIGHT  
(MSTAR 1)*

DISIARKAN OLEH/  
*PUBLISHED BY*  
JABATAN PEGUAM NEGARA/  
*ATTORNEY GENERAL'S CHAMBERS*

AKTA PERLINDUNGAN VARIETI BARU TUMBUHAN 2004

PEMBERITAHUAN PERMOHONAN PENDAFTARAN VARIETI BARU TUMBUHAN DAN  
PEMBERIAN HAK PEMBIAK BAKA (MSTAR 1)

PADA menjalankan kuasa yang diberikan oleh seksyen 22 Akta Perlindungan Varieti Baru Tumbuhan 2004 [*Akta 634*], Lembaga memberitahu bahawa suatu permohonan telah dibuat bagi pendaftaran varieti baru tumbuhan dan pemberian hak pembiak baka sebagaimana yang dinyatakan dalam Jadual.

PROTECTION OF NEW PLANT VARIETIES ACT 2004

NOTIFICATION OF APPLICATION FOR REGISTRATION OF NEW PLANT VARIETY AND  
GRANT OF BREEDER'S RIGHT (MSTAR 1)

IN exercise of the powers conferred by section 22 of the Protection of New Plant Varieties Act 2004 [*Act 634*], the Board notifies that an application has been made for the registration of a new plant variety and grant of a breeder's right as specified in the Schedule.

## JADUAL/SCHEDULE

Nama pemohon/*Name of applicant*: Institut Penyelidikan dan Kemajuan Pertanian Malaysia/*Malaysian Agricultural Research and Development Institute* (MARDI)

Nama pengenalan varieti/*Variety denomination*: MSTAR 1

No. rujukan fail pemohon/*Applicant file reference no.*: PVBT 032/18

Tanaman/*Crop*: Belimbing/*Star fruit*

Ciri-ciri varieti: Tertakluk kepada keadaan cuaca dan persekitaran, ciri-ciri yang didapati semasa pemeriksaan dijalankan ke atas varieti tersebut adalah seperti yang berikut:

*Characteristics of the variety: Subject to weather and environmental conditions, the characteristics obtained during the examination on the variety are as follows:*

Bil./ No.	Ciri-Ciri Varieti/ <i>Characteristics of Variety</i>	Ciri-Ciri Belimbing 'MSTAR 1'/ <i>Characteristics of 'MSTAR 1' Star Fruit</i>
1.	Dahan: kepadatan lentisel/ <i>Branch: density of lenticel</i>	Sederhana/ <i>Medium</i>
2.	Pucuk: keamatan warna perang/ <i>Shoot: intensity of brown colour</i>	Sederhana/ <i>Medium</i>
3.	Pucuk muda : warna antosianin/ <i>Young shoot: anthocyanin colouration</i>	Kuat/ <i>Strong</i>
4.	Daun: panjang petiol termasuk rakis/ <i>Leaf: length of petiole including rachis</i>	Purata: 11.6 cm/ <i>Mean: 11.6 cm</i>

Bil./ No.	Ciri-Ciri Varieti/ <i>Characteristics of Variety</i>	Ciri-Ciri Belimbing 'MSTAR 1'/ <i>Characteristics of 'MSTAR 1' Star Fruit</i>
5.	Daun: sifat berdasarkan pucuk/ <i>Leaf: attitude in relation to shoot</i>	Menegak/ <i>Upright</i>
6.	Daun: keamatan warna hijau pada bahagian atas/ <i>Leaf: intensity of green colour on upper side</i>	Sederhana/ <i>Medium</i>
7.	Anak daun: warna petiolul/ <i>Leaflet: colour of petiolule</i>	Perang merah/ <i>Red brown</i>
8.	Anak daun terminal: bentuk/ <i>Terminal leaflet: shape</i>	Ovat/ <i>Ovate</i>
9.	Anak daun terminal: bentuk pangkal/ <i>Terminal leaflet: shape of base</i>	Obtus/ <i>Obtuse</i>
10.	Anak daun terminal: panjang/ <i>Terminal leaflet: length</i>	Purata: 7.6 cm/ <i>Mean: 7.6 cm</i>
11.	Anak daun terminal: lebar/ <i>Terminal leaflet: width</i>	Purata: 4.4 cm/ <i>Mean: 4.4 cm</i>
12.	Anak daun terminal: nisbah panjang kepada lebar/ <i>Terminal leaflet: ratio of length to width</i>	Purata: 1.7 cm/ <i>Mean: 1.7cm</i>
13.	Anak daun terminal: keberkilatan permukaan atas/ <i>Terminal leaflet: glossiness of upper surface</i>	Kuat/ <i>Strong</i>
14.	Anak daun terminal: pengalunan pada margin/ <i>Terminal leaflet: undulation on margin</i>	Lemah/ <i>Weak</i>
15.	Anak daun terminal: pandangan sisi keratan rentas/ <i>Terminal leaflet: profile in cross section</i>	Rata atau sedikit cekung/ <i>Flat or slightly concave</i>
16.	Anak daun: kedudukan pangkal berdasarkan petiol/ <i>Leaflet: position of base in relation to petiole</i>	Di bawah/ <i>Below</i>

Bil./ No.	Ciri-Ciri Varieti/ <i>Characteristics of Variety</i>	Ciri-Ciri Belimbing 'MSTAR 1'/ <i>Characteristics of 'MSTAR 1' Star Fruit</i>
17.	Bunga: kedudukan stigma berdasarkan anter/ <i>Flower: position of stigma in relation to anther</i>	Di atas/ <i>Above</i>
18.	Sepal: luas permukaan warna antosianin/ <i>Sepal: surface area of anthocyanin colouration</i>	Sederhana/ <i>Medium</i>
19.	Petal: bentuk apeks/ <i>Petal: shape of apex</i>	Membulat/ <i>Rounded</i>
20.	Petal: keamatan warna antosianin/ <i>Petal: intensity of anthocyanin colouration</i>	Sederhana/ <i>Medium</i>
21.	Petal: sebaran warna antosianin/ <i>Petal: distribution of anthocyanin colouration</i>	Sepertiga bawah dan tengah/ <i>Lower and middle third</i>
22.	Petal: kelengkungan/ <i>Petal: curvature</i>	Sangat melengkung ke belakang/ <i>Strongly recurved</i>
23.	Putik buah: kehadiran warna antosianin pada sayap/ <i>Very young fruit: presence of anthocyanin colouration on wing</i>	Ada/ <i>Present</i>
24.	Putik buah: warna/ <i>Very young fruit: colour</i>	Hijau cerah/ <i>Light green</i>
25.	Buah: panjang/ <i>Fruit: length</i>	Purata: 12.1 cm/ <i>Mean: 12.1 cm</i>
26.	Buah: lebar/ <i>Fruit: width</i>	Purata: 6.2 cm/ <i>Mean: 6.2 cm</i>
27.	Buah: nisbah panjang kepada lebar/ <i>Fruit: ratio length to width</i>	Purata: 2.0 cm/ <i>Mean: 2.0 cm</i>
28.	Buah: bentuk/ <i>Fruit: shape</i>	Oblong/ <i>Oblong</i>

Bil./ No.	Ciri-Ciri Varieti/ <i>Characteristics of Variety</i>	Ciri-Ciri Belimbing 'MSTAR 1'/ <i>Characteristics of 'MSTAR 1' Star Fruit</i>
29.	Buah: hujung apikal/ <i>Fruit: apical point</i>	Menajam/ <i>Pointed</i>
30.	Buah: warna kulit/ <i>Fruit: colour of skin</i>	Kuning hijau (indeks 4: pada peringkat buah hampir masak)/ <i>Green yellow (index 4: at the stage the fruit is almost ripe)</i>
31.	Buah: kecerunan warna kulit dari apeks ke pangkal/ <i>Fruit: gradient of skin colour from apex to base</i>	Sederhana/ <i>Medium</i>
32.	Buah: kehadiran tanda putih/ <i>Fruit: presence of white marking</i>	Ada/ <i>Present</i>
33.	Buah: warna rusuk pada permatang/ <i>Fruit: colour of rib on the ridge</i>	Hijau cerah/ <i>Light green</i>
34.	Buah: permukaan/ <i>Fruit: surface</i>	Sederhana melepuh/ <i>Moderately blistered</i>
35.	Buah: pandangan sisi keratan rentas pada sayap/ <i>Fruit: profile of wing in cross section</i>	Sederhana cembung/ <i>Moderately convex</i>
36.	Buah: tinggi keratan rentas pada sayap/ <i>Fruit: height of wing in cross section</i>	Purata: 1.9 cm/ <i>Mean: 1.9 cm</i>
37.	Buah: lebar keratan rentas pada sayap/ <i>Fruit: width of wing in cross section</i>	Purata: 2.0 cm/ <i>Mean: 2.0 cm</i>
38.	Buah: tekstur isi/ <i>Fruit: texture of flesh</i>	Sederhana/ <i>Medium</i>
39.	Buah: kemanisan/ <i>Fruit: sweetness</i>	Purata: 9.2 %/ <i>Mean: 9.2 %</i>

Bil./ No.	Ciri-Ciri Varieti/ <i>Characteristics of Variety</i>	Ciri-Ciri Belimbing 'MSTAR1'/ <i>Characteristics of 'MSTAR1' Star Fruit</i>
40.	Buah: bilangan biji/ <i>Fruit: number of seeds</i>	Purata: 14/ <i>Mean: 14</i>
41.	Biji: keamatan warna perang/ <i>Seed: intensity of brown colour</i>	Sederhana/ <i>Medium</i>

Bertarikh 24 November 2022

*Dated 24 November 2022*

[KP/LA/PVBT 032/18; PN(PU2)667/JLD. 19]

DATO' ZAHIMI BIN HASSAN  
*Pengerusi Lembaga Varieti Tumbuhan/  
 Chairman of the Plant Varieties Board*