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# WARTA KERAJAAN PERSEKUTUAN

## *FEDERAL GOVERNMENT GAZETTE*

### PEMBERITAHUAN PERMOHONAN PENDAFTARAN VARIETI BARU TUMBUHAN DAN PEMBERIAN HAK PEMBIAK BAKA (MNS2020)

### *NOTIFICATION OF APPLICATION FOR REGISTRATION OF NEW PLANT VARIETY AND GRANT OF BREEDER'S RIGHT (MNS2020)*

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 (MNS2020)

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 (MNS2020)

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 been made for the registration of new plant variety and grant of breeder's right has as specified in the Schedule.

## JADUAL/SCHEDULE

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

Nama pengenalan varieti/*Variety denomination*: MNS2020

No. rujukan fail pemohon/*Applicant file reference no.*: PVBT 006/15

Tanaman/*Crop*: Nanas/*Pineapple*

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 the 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 Nanas 'MNS2020' / <i>Characteristics of 'MNS2020' Pineapple</i>
1.	Pokok: sifat daun/ <i>Plant: foliage attitude</i>	Separa menegak/ <i>Semi-upright</i>
2.	Pokok: bilangan daun hasil dari bulan ke-4 selepas pemindahan tanaman hingga "forcing"/ <i>Plant: number of leaves produced from 4th month after transplanting to forcing</i>	Purata 41/ <i>Mean 41</i>
3.	Daun rujukan: panjang/ <i>Reference leaf: length</i>	Purata 71.31 cm/ <i>Mean 71.31 cm</i>

Bil. / No.	Ciri-Ciri Varieti / <i>Characteristics of Variety</i>	Ciri-Ciri Nanas 'MNS2020' / <i>Characteristics of 'MNS2020' Pineapple</i>
4.	Daun rujukan: lebar/ <i>Reference leaf: width</i>	Purata 6.34 cm/ <i>Mean 6.34 cm</i>
5.	Daun: warna dominan (pada permukaan atas)/ <i>Leaf: predominant colour (on upper surface)</i>	Hijau gelap/ <i>Dark green</i>
6.	Daun: kehadiran variegasi (pada permukaan atas)/ <i>Leaf: presence of variegation (on upper surface)</i>	Tiada/ <i>Absent</i>
7.	Daun: kehadiran antosianin (pada permukaan atas)/ <i>Leaf: presence of anthocyanin (on upper surface)</i>	Ada/ <i>Present</i>
8.	Daun: keamatan antosianin/ <i>Leaf: intensity of anthocyanin</i>	Lemah/ <i>Weak</i>
9.	Daun: sebaran antosianin/ <i>Leaf: distribution of anthocyanin</i>	Seragam pada margin dan alur/ <i>Uniform on margins and in the groove</i>
10.	Daun: sebaran antosianin secara memanjang/ <i>Leaf: distribution of anthocyanin lengthwise</i>	Terutamanya ke arah pangkal/ <i>Mainly towards the base</i>
11.	Daun: sifat tepian daun/ <i>Leaf: leaf edges aspect</i>	Piping/ <i>Piping</i>
12.	Pedunkel: warna permukaan atas daun braktea ventral/ <i>Peduncle: colour of upper surface of ventral bract leaves</i>	Hijau (ada antosianin)/ <i>Green (have anthocyanin)</i>
13.	Jambak bunga: saiz braktea floral/ <i>Inflorescence: floral bract size</i>	Panjang 2.59 cm dan lebar 1.52 cm/ <i>Length 2.59 cm and width 1.52 cm</i>
14.	Jambak bunga: corak pembungaan/ <i>Inflorescence: flowering pattern</i>	Pembungaan bermula dari pangkal ke pucuk/ <i>Flowering proceeds from bottom to top</i>

Bil. / No.	Ciri-Ciri Varieti / <i>Characteristics of Variety</i>	Ciri-Ciri Nanas 'MNS2020' / <i>Characteristics of 'MNS2020' Pineapple</i>
15.	Jambak bunga: bilangan bunga/ <i>Inflorescence: number of flower</i>	Purata 58/ <i>Mean 58</i>
16.	Bunga: pewarnaan hujung petal/ <i>Flower: petal tip colouration</i>	Ungu muda/ <i>Light purple</i>
17.	Bunga: luas kawasan petal tanpa pewarnaan (tanpa mengasingkan bunga dari buah)/ <i>Flower: area of petal without colouration (without removing the flower from the fruit)</i>	Sederhana/ <i>Medium</i>
18.	Bunga: panjang petal/ <i>Flower: length of petal</i>	Purata 2.69 cm/ <i>Mean 2.69 cm</i>
19.	Bunga: pangkal petal/ <i>Flower: petal base</i>	Bebas/ <i>Free</i>
20.	Bunga: panjang sepal/ <i>Flower: length of sepal</i>	Purata 1.10 cm/ <i>Mean 1.10 cm</i>
21.	Bunga: warna dominan sepal/ <i>Flower: predominant colour of sepal</i>	Hijau/ <i>Green</i>
22.	Bunga: saiz relatif stamen/ <i>Flower: relative size of stamens</i>	Sama dengan stil/ <i>Equal to style</i>
23.	Bunga: kedudukan anter/ <i>Flower: disposition of anthers</i>	Berasingan/ <i>Separate</i>
24.	Bunga: panjang stamen/ <i>Flower: stamen length</i>	Purata 1.86 cm/ <i>Mean 1.86 cm</i>
25.	Bunga: panjang stil/ <i>Flower: style length</i>	Purata 2.25 cm/ <i>Mean 2.25 cm</i>

Bil. / No.	Ciri-Ciri Varieti / <i>Characteristics of Variety</i>	Ciri-Ciri Nanas 'MNS2020' / <i>Characteristics of 'MNS2020' Pineapple</i>
26.	Buah sebelum masak: warna dominan/ <i>Immature fruit: predominant colour</i>	Hijau keperakan/ <i>Slivery green</i>
27.	Pokok: bahagian pokok yang melentur atau mendatar/ <i>Plant: part of the plant bending or flattening</i>	Keseluruhan pokok/ <i>Whole plant</i>
28.	Pokok: tinggi dari tanah ke bahagian atas daun/ <i>Plant: height from the ground to the top of the foliage</i>	Purata 93.3 cm/ <i>Mean 93.3 cm</i>
29.	Pokok: tinggi dari tanah ke bahagian pangkal buah/ <i>Plant: height from the ground to the fruit base</i>	Purata 52.6 cm/ <i>Mean 52.6 cm</i>
30.	Pedunkel: kehadiran trikoma sebelum buah masak/ <i>Peduncle: presence of trichomes before fruit ripening</i>	Ada/ <i>Present</i>
31.	Pedunkel: panjang/ <i>Peduncle: length</i>	Purata 37.5 cm/ <i>Mean 37.5 cm</i>
32.	Pedunkel: diameter (pada bahagian tengah)/ <i>Peduncle: diameter (at middle part)</i>	Purata 2.90 cm/ <i>Mean 2.90 cm</i>
33.	Pedunkel: bilangan braktea (buku pertama ke pedunkel ditanggal tidak termasuk braktea pada paksi buah)/ <i>Peduncle: number of bracts (first node to detached peduncle excluding bracts on fruit axis)</i>	Purata 18/ <i>Mean 18</i>
34.	Pokok: purata bilangan sulur bawah tanah per pokok/ <i>Plant: mean number of underground suckers per plant</i>	Tiada atau sangat sedikit/ <i>None or very few</i>
35.	Pokok: kehadiran sulur tangkai/ <i>Plant: presence of slips</i>	Ada/ <i>Present</i>
36.	Pokok: bilangan sulur tangkai/ <i>Plant: number of slips</i>	Purata 6/ <i>Mean 6</i>

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37.	Jambul: sifat/ <i>Crown : nature</i>	Separa menegak/ <i>Semi upright</i>
38.	Jambul: saiz/ <i>Crown: size</i>	Sederhana/ <i>Medium</i>
39.	Jambul: warna daun jambul/ <i>Crown : Colour of crown leaves</i>	Berlainan daripada daun pokok/ <i>Difference from plant leaves</i>
40.	Jambul: bilangan anak jambul per buah/ <i>Crown: number of crownlets per fruit</i>	Tunggal/ <i>Solitary</i>
41.	Jambul: ketinggian/ <i>Crown: height</i>	Purata 25.2 cm/ <i>Mean 25.2 cm</i>
42.	Buah masak: kesenangan pedunkel patah/ <i>Fruit: breaking from peduncle</i>	Senang/ <i>Easy</i>
43.	Buah masak: bentuk/ <i>Ripe fruit: shape</i>	Eliptik (memanjang)/ <i>Elliptic (elongated)</i>
44.	Buah masak: warna dominan kulit/ <i>Ripe fruit: predominant colour of skin</i>	Hijau dan Kuning/ <i>Green and Yellow</i>
45.	Buah masak: keseragaman warna/ <i>Ripe fruit: colour uniformity</i>	Mengikut gradien/ <i>With a gradient</i>
46.	Buah masak: kehadiran leher/ <i>Ripe fruit: presence of neck</i>	Tiada atau seperti sesil/ <i>Absent or sessile like</i>
47.	Buah masak: tinggi (tidak termasuk leher)/ <i>Ripe fruit: height (excluding neck)</i>	Purata 17.4 cm/ <i>Mean 17.4 cm</i>
48.	Buah masak: diameter pada bahagian bawah (di ketinggian tengah sebelum mata terakhir)/	Purata 11.6 cm/ <i>Mean 11.6 cm</i>

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	<i>Ripe fruit: diameter at the lower part (at mid height of the one before last eye)</i>	
49.	Buah masak: diameter pada bahagian tengah/ <i>Ripe fruit: diameter at the middle</i>	Purata 12.8 cm/ <i>Mean 12.8 cm</i>
50.	Buah masak: diameter pada bahagian atas/ <i>Fruit: diameter at the upper part</i>	Purata 11.1 cm/ <i>Mean 11.1 cm</i>
51.	Buah masak: berat (tidak termasuk jambul)/ <i>Fruit: weight (excluding crown)</i>	Purata 1.63kg/ <i>Mean 1.63 kg</i>
52.	Buah masak: bilangan mata/ <i>Ripe fruit: number of eyes</i>	Purata 105/ <i>Mean 105</i>
53.	Buah masak: profil mata/ <i>Fruit: profile of eyes</i>	Rata/ <i>Flat</i>
54.	Isi: warna/ <i>Flesh: colour</i>	Sederhana Kuning/ <i>Medium Yellow</i>
55.	Isi: keseragaman warna dari bahagian bawah ke atas/ <i>Flesh: colour uniformity from the bottom to the top</i>	Mengikut gradien/ <i>With a gradient</i>
56.	Isi: diameter empulur/ <i>Flesh: core diameter</i>	Purata 2.25 cm/ <i>Mean 2.25 cm</i>
57.	Isi: kedalaman mata/ <i>Flesh: depth of eye</i>	Cetek/ <i>Shallow</i>
58.	Isi: kepadatan/ <i>Flesh: compactness</i>	Sederhana/ <i>Medium</i>
59.	Isi: kerangupan/ <i>Flesh: crunchiness</i>	Kurang rangup/ <i>Less crunchy</i>

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60.	Isi: tekstur/ <i>Flesh: texture</i>	Halus/ <i>Smooth</i>
61.	Isi: aroma/ <i>Flesh: aroma</i>	Lemah/ <i>Weak</i>
62.	Isi: keberjusan/ <i>Flesh: juiciness</i>	Sederhana/ <i>Medium</i>
63.	Isi: keasidan/ <i>Flesh: acidity</i>	pH 4.10/ <i>pH 4.10</i>
64.	Isi: kandungan gula/ <i>Flesh: sugar content</i>	Purata 19.85° brix/ <i>Mean 19.85° brix</i>

Bertarikh 21 Mac 2022

*Dated 21 March 2022*

[KP/LA/483/18/1; PN(PU2)667/]ld. 19]

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