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Application Details	
APPLICATION NUMBER	201811019495
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/05/2018
APPLICANT NAME	1 . DR. GANGWAR ANIL KUMAR 2 . DR. KHANGEMBAM SANGEETA DEVI 3 . DR. SACHAN AMIT KUMAR 4 . DR. VERMA MAHESH KUMAR 5 . DR. PATEL GHANSHYAM
TITLE OF INVENTION	DEVELOPMENT OF PROTOCOLS FOR DECELLULARIZATION OF DERMIS & DIAPHRAGM OF ANIMALS, AND FISH SWIM BLADDER USING SOAPNUT (SAPINDUS SP.) AND OTHER PLANTS EXTRACT HAVING LIKE PROPERTIES.
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	amitsachan2006@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	24/05/2018
PUBLICATION DATE (U/S 11A)	29/11/2019

Application Status	
APPLICATION STATUS	Application referred u/s 12 for examination.

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Application Details

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DATE OF FILING	24/05/2018
APPLICANT NAME	1 . DR. GANGWAR ANIL KUMAR 2 . DR. KHANGEMBAM SANGEETA DEVI 3 . DR. SACHAN AMIT KUMAR 4 . DR. VERMA MAHESH KUMAR 5 . DR. PATEL GHANSHYAM
TITLE OF INVENTION	DEVELOPMENT OF PROTOCOLS FOR DECELLULARIZATION OF PERIOSTEUM AND SMALL INTESTINAL SUBMUCOSA OF ANIMALS USING SOAPNUT (SAPINDUS SP.) AND OTHER PLANTS EXTRACT HAVING LIKE PROPERTIES.
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APPLICANT NAME	1 . DR. GANGWAR ANIL KUMAR 2 . DR. KHANGEMBAM SANGEETA DEVI 3 . DR. SACHAN AMIT KUMAR 4 . DR. PATEL PREETI
TITLE OF INVENTION	ACELLULARIZATION OF OMASUM, ABOMASUM URINARY BLADDER, AND GALL BLADDER OF RUMINANTS USING SOAPNUT (SAPINDUS SP.) AND OTHER PLANTS EXTRACT HAVING LIKE PROPERTIES.
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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(54) Title of the invention : Sensor assembly for evaluating fluid dynamic for a mechanical system and method thereof

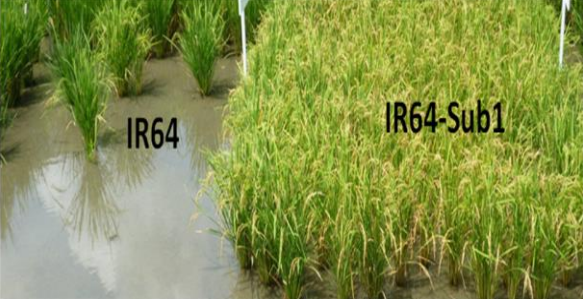
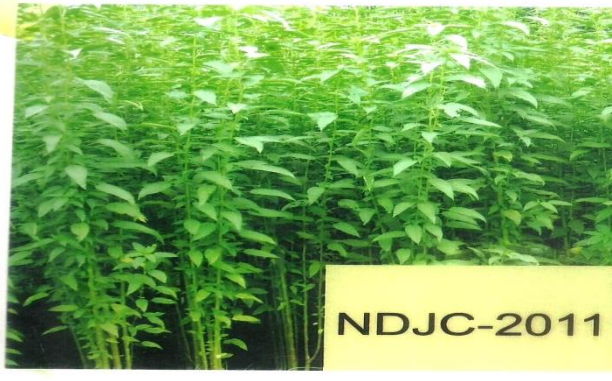

<p>(51) International classification :H04L0029060000, G05B0023020000, G01S0013860000, F01M0011100000, B01D0029110000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Y. Madhusudhana Reddy Address of Applicant :Associate Professor in Mathematics, Sri Venkateswara Degree & P.G College, Jesus Nagar, Anantapuramu, Andhra Pradesh, India, Pincode: 515001 -----</p> <p>2)Mr. T.Ch. Anil Kumar 3)Dr. Vishal Mehta 4)Dr. Narsu Sivakumar 5)Mrs. Mulupuri Nagapavani 6)Dr. Venna Kusuma Kumari 7)Dr. G. Vijaya Lakshmi 8)Mrs. Rosemary Varghese 9)Dr. Chanda Thapliyal Nautiyal 10)Dr. N. Tarakaramu 11)Dr. K. Bhagya Lakshmi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Y. Madhusudhana Reddy Address of Applicant :Associate Professor in Mathematics, Sri Venkateswara Degree & P.G College, Jesus Nagar, Anantapuramu, Andhra Pradesh, India, Pincode: 515001 -----</p> <p>2)Mr. T.Ch. Anil Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Vignans Foundation for Science Technology and Research, (Deemed to be University), Vadlamudi, Guntur, Andhra Pradesh, India, Pin Code:522213 -----</p> <p>3)Dr. Vishal Mehta Address of Applicant :Assistant Professor, Department of Agricultural Statistics, College of Agriculture, Acharya Narendra Deva University of Agriculture and Technology (ANDUAT), Kumarganj, Ayodhya, Uttar Pradesh, India, Pincode: 224229 -----</p> <p>4)Dr. Narsu Sivakumar Address of Applicant :Assistant Professor, Department of Mathematics , SRM Institute of Science and Technology, Kattankulathur, Kancheepuram Tamilnadu, India, Pincode: 603203. -----</p> <p>5)Mrs. Mulupuri Nagapavani Address of Applicant :Assistant professor, Department of Sciences & Humanities, Hyderabad Institute of Technology and Management, Hyderabad, Telangana, Pincode-501401 -----</p> <p>6)Dr. Venna Kusuma Kumari Address of Applicant :Dean, Humanities and Basic Sciences, Godavari Institute of Engineering and Technology (Autonomous), Rajamundry, Andhra Pradesh, India, Pincode: 533103 -----</p> <p>7)Dr. G. Vijaya Lakshmi Address of Applicant :Assistant Professor, Humanities and Sciences-Mathematics, CVR College of Engineering, Vastunagar, Mangalpalli, Ibrahimpatnam, Rangareddy, Telangana, India, Pincode: 501 510 -----</p> <p>8)Mrs. Rosemary Varghese Address of Applicant :Assistant Professor, Department of Mathematics, Government First Grade College, Mulbagal, Kolar, Karnataka, India, Pincode: 563131 -----</p> <p>9)Dr. Chanda Thapliyal Nautiyal Address of Applicant :Assistant Professor (Mathematics), DU Government Degree College, Narendra Nagar, Uttarakhand, India, Pincode: 249175 -----</p> <p>10)Dr. N. Tarakaramu Address of Applicant :Assistant Professor, Department of Humanities and Basic Sciences, Annamacharya Institute of Technology & Sciences, Tirupati, Andhra Pradesh, India, Pincode: 517520 -----</p> <p>11)Dr. K. Bhagya Lakshmi Address of Applicant :Assistant Professor, Department of Humanities and Basic Sciences, Annamacharya Institute of Technology & Sciences, Tirupati, Andhra Pradesh, India, Pincode: 517520. -----</p>
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(57) Abstract :


Device and/or machinery diagnostics, prognostics, and control are made easier with the help of condition sensing, which may include detecting the condition of the device and/or the state of fluid inside the device (e.g., fluid health indicators). The system may make use of several sensors to identify the present state and estimate the future state of the fluid and/or device, as well as to manage the device, for example, to extend the remaining usable life of the fluid and/or to improve the functioning of the device. They may connect wirelessly with one another, with the device, and/or with a central control system that offers functions like sensor fusion, prognostics, and control integration, amongst other things. Additionally, depending on the physical or chemical features of the surroundings, the sensors may be powered locally.

No. of Pages : 22 No. of Claims : 5

Varieties released/identified for release from 2017-18 to 2021-22


Characteristics	Crop
<p>IR 64 sub 1: Suitable for complete submergence up to 14 days, maturity 120-125 days, yield 35-40 q/ha</p>	
<p>. Jute (NDJC-2011) : Plant Height - 4.25 - 4.50 m, Fibre Yield 33-35 q/ha</p>	
<p>Narendra haldi-98: Av. Yield 32.58t/ha, high dry recovery (20.59%), curcumin (5.2%), essential oil (7.0%) and oleoresin content (12.97%). This variety has showed resistance against major foliar diseases</p>	

<p>1. Linseed (NDL-2011-31) : Rain-fed, duration 120-125 days, yield 12-14 q/ha, oil content 37-39%, resistant to lodging & shattering as well as wilt rust and powdery mildew.</p>	
<p>3. Oat (NDO-1101):Plant height 130-145 cm, duration 130-140 days, yield 18.5-23.5 q/ha resistant to lodging & shattering, recommended for normal as well as salt –affected soils of U.P.</p>	
<p>3. Jute (NDJC-2013):Plant height 4.00 – 4.25 m., duration 160-170 days, resistant to lodging and water logging, tolerant to drought, recommended for upland and lowlands of eastern U.P.</p>	

<p>Narendra Alsi-5 :</p> <ul style="list-style-type: none"> • It has been identified by Central Varietal Identification Committee which is suitable for moisture stress condition of utera . • Yield 6-8 q/ha, oil content 37% & maturity : 115-120 days 	
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Crop Varieties Notified :

IR 64 -Sub 1:

<p>IR 64 -Sub 1:</p> <ol style="list-style-type: none"> 1. This variety has yield potential of 4.56 t/ha and its maturity duration is 110-115 days. 2. This variety has high submergence tolerance under flash flood and lowland conditions. 3. IR 64 -Sub 1 has good milling (69.3 %), head rice recovery (61.6%), GC % (50.5) and L/B ratio (3.22 mm). 4. It possesses intermediate grain amylose content (24.34%) alongwith good cooking quality. 5. It possesses high degree of tolerance to BLB, sheath blight, leaf blast, brown spot, rice tungro, GLH, case worm, WBPH, plant hopper, gall midge (GMB 1) and stem borer in field condition. 	 <div data-bbox="1019 1591 1247 1675" style="border: 1px solid blue; padding: 2px; text-align: center; color: red; font-weight: bold;"> IR 64-Sub 1 </div>
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NDR 9930111 :

1. A semi tall, submergence tolerance, long duration 145 days, high yielding variety (5.5t/ha), short bold grain (SB) type.
2. NDR 9930111 performed exceedingly well under different dose of nitrogen. NDR 9930111 indicated good responsiveness to nitrogen levels.
3. NDR 9930111 has good milling (68 %), head rice recovery (57%), GC % (50) and L/B ratio (2.23 mm).
4. It possesses intermediate grain amylose content (23.56%) alongwith good cooking quality.
5. It possesses tolerance to Leaf Blight, Sheath Blight, Sheath rot, BLB, RTV, BPH, WBPH, GLH, Gall Midge, Blue Beetle, Leaf folder, Case Worm and stem borer in field condition.



NDR-702

NDR-702

Ecology

Deep water ecology of Uttar Pradesh (70-120 cm water depth)

Characteristics

- Long bold red kernel grain
- Flowering duration 115 days
- Moderate tillering
- Good elongation
- Kneeing ability with submergence tolerance
- Average grain yield 35-40 q/ha
- Quality-wise: 67.9% (HRR), amylose content (23.4%), hulling recovery (79.8%) and milling recovery (70.5%)
- Moderately resistance to Neck Blast and Stem Borer



Standing crop in deep water



Narendra Matar-1

1. Creamy white large seeded
2. Medium tall (68cm) type.
3. Duration:-115-118 days.
4. Yield -20-25q/ ha.
5. Resistant to powdery mildew and tolerant to rust.



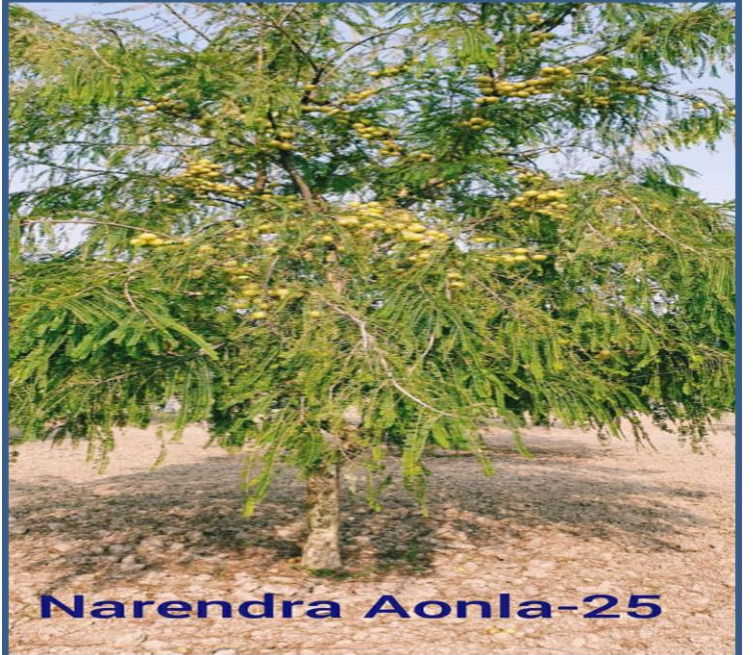
Narendra Chana-1

- Desi bold seeded type(25.9g/100 seed) variety for timely sown condition.
- Duration:-135 -14 days.
- Yield -25-30q/ ha.
- Multiple resistant to dry root rot and Aschochyta blight.
- Moderately resistant against to pod borer.



Narendra Aonla-25

1. Early flowering (starts from last week of February)
2. Start bearing in 4th year
3. Early ripening (November) and earliest among the released varieties.
4. Fruit shape- Flattened round.
5. Average yield 34.73 kg/plant, fruit weight 52.76g , fruit size 4.18 cm x 4.41 cm, stone shape- round and size- small, total number of seed 06, segments-6, TSS pulp 11.50⁰Brix, acidity (0.89%) and vitamin C-545.93 mg / 100 g pulp.



Narendra Aonla-26

1. Early flowering (starts from last week of February)
2. Full ripening in the month of December.
3. Attractive bright green yellow colour of fruits with smooth thin skin of complete ripened fruits.
4. Fruit shape- Flattened round.
5. Average yield/plant is 55.56 kg, fruit weight 45.68g , fruit size 3.93 cm x 4.15 cm, total number of seed 06, segments-6, TSS pulp 10.85⁰Brix, acidity (1.10%) and vitamin C 483.68 mg / 100 g pulp.



Narendra Bael-10


1. Early ripening (March) and earliest among the released varieties.
2. Compact foliage, less fruit sunscald and very less thorns under subtropical-arid environment and starts bearing in 4th year.
3. Drought tolerant, luxuriant growth and higher fruit yield under less precipitation and high temperature.
4. Attractive light yellow colour of pulp of complete ripened fruit.
5. It is highly suitable for powder and RTS owing to attractive pulp colour and fibre content.




Fig. Ripened fruit of ND/AH-10

Varieties Identified for Release :

1. NDR- 9730018

Crop:	Paddy
Rice	NDR 9730018 (IET 17294) IR 67469-1-2-M-1-1-1 (IR 53519-26-4-2-1-3/PSBRC 60) Narendra Pani Dhan
Release	SVRC
Ecosystem	Flash flood late shallow low land
Characteristics:	Crop : NDR-9730018
<ol style="list-style-type: none">1. A semi tall, submergence tolerance, long duration 145 days, high yielding variety (5.6 t/ha), long slender grain (LS) type.2. NDR 9730018 performed exceedingly well under different dose of nitrogen. NDR 9730018 indicated good responsiveness to nitrogen levels.3. The rice variety NDR 9730018 has exhibited fare degree of tolerant to major diseases and insect pests. Disease- Leaf Blast,BLB,ShB,ShR and Rice tungro Insect/pest- BPH,WBPH, Whorl maggot, GLH,Gall midge and Stem borer4. The variety NDR 9730018 posses long slender grain type with good cooking qualities, milling% (80%) and head rice recovery (66%) with amylose content of about 24.03%. It cooks better as its gel consistency is soft (53.3 mm) with moderate alkali spreading value of 4.0	

NDR 8418-3

Crop:	Paddy
Rice	NDR 8418-3 Kalanamak/Swarna
Release	SVRC
Ecosystem	Late aromatic short grain (Kalanamak Type)
Characteristics:	Crop : NDR 8418-3 Kalanamak/Swarna
<ol style="list-style-type: none">1. A semi tall, submergence tolerance, long duration 145 days, high yielding aromatic short grain variety (4.3 t/ha), short bold grain (SB) type.2. NDR 8418-3 performed exceedingly well under different dose of nitrogen. NDR 8418-3 indicated good responsiveness to nitrogen levels.3. The rice variety NDR 8418-3 has exhibited fare degree of tolerant to major diseases and insect pests. Disease- BLB,ShB,ShR and Rice tungro Insect/pest- BPH,WBPH, Whorl maggot, GLH, and Gall midge4. The variety NDR 8418-3 posses long slender grain type with good cooking qualities, milling% (80%) and head rice recovery (66%), good aroma.	

Narendra Kamna (NDBG-16)- A bottle gourd variety identified for release in Zone I(J&K and Uttarkhand) and VIII (Karnataka , TN and Kerala) during 38th group meet of AICRP held of 25-27 Oct.,2020. This is long fruit type variety with yield potential of upto 542.2 q/ha at IIVR Varanasi and national average yield of 270.83 q/ha and 340.82q/ha in Zone IV (Punjab, UP and Bihar). Suitable for cultivation in *Zaid* and *Kharif* seasons. Dr. Gulab Chand Yadav, Associate Professor, Department of Vegetable Science has developed this variety.



Fig- Narendra Kamna (NDBG-16)

Narendra Suyog (NDB white-1)

Season- *Kharif* and *Rabi*

Recommended for Zone- Zone-III (Barapani, Port Blair and Nagaland) and IV (Punjab, UP, Bihar and Jharkhand)

Features- Medium Long fruit shape


Average Yield-380


Potential Yield-548 q/ha



Narendra Suyog (NDB White-1) codes as 2017/BRLVAR-7 in AICRP (VC) trials is recommended as a high yielding small long fruit type white brinjal variety for release in Zone-III (Barapani, Port Blair and Nagaland) and IV (Punjab, UP, Bihar and Jharkhand) and identified during 39th Group Meeting AICRP (VC) held at IIVR, Varanasi through online platform on 7-9th September, 2021. Suitable for cultivation in *Kharif*, *Rabi* and *Zaid* seasons. Foliage is green, erect branching habit. Fruits are cluster bearing with glossy white and green calyx without spine, long (14.80 cm) with a fruit girth of 5.96 cm. Average fruit weight ranges from 96.67g. Fruits are ready for harvest after 60 days from the date of sowing. This is small long fruit type variety with yield potential of up to 548.00 q/ha at ANDUAT, Ayodhya and national average yield of 380 q/ha. Suitable for growing as ratoon crop. Tolerant to alkaline soil and shady condition. It is resistant to brinjal fruit and shoot borer. Its require NPK dose @ 100:50:50 kg/ha + 250q FYM/ha.



Variety name: NARENDRA SARAYU (NDH 8) (IC-)		
Year of identified for release	2017	
Pedigree	Selection from a local landrace collected from Sonbhadra, Uttar Pradesh	
Salient features	High curcumin content of 5-6%, more number of primary rhizomes and 10% higher yield over the national check. Suitable for powder industry	
Yield	35 t ha-1	
Quality attributes	Curcumin 5.6%, oleoresin 12-14%, essential oil 6.7%	
Reaction to biotic and abiotic stresses	Moderately resistant to foliar disease	
Recommended area	Uttar Pradesh	

Variety name: Narendra Richa (NDM-79)		
Year identified for of release	2018	
Pedigree	Selection from land race collected from district Basti (U.P.)	
Salient features	Dual purpose alkaline tolerant fenugreek	
Yield	12-15 q ha-1	
Quality attributes	Marketable good size seeds	
Reaction to biotic and abiotic stresses	Moderate resistance to powdery mildew with alkaline tolerance	
Recommended area	Uttar Pradesh and Andhra Pradesh	