प्रेषक.

कृषि निदेशक, उत्तराखण्ड।

सेवा में

1 सम्पादक अमर उजाला देहरादून।

2 सम्पादक दैनिक जागरण, उत्तराखण्ड संस्करण

3 सम्पादक हिन्दूस्तान, उत्तराखण्ड संस्करण

4 सम्पादक टाइम्स ऑफ इंडिया अंग्रेजी संस्करण, दिल्ली

वेहरादून दिनांक, 19 मार्च, 2021 /पंजी./कृषि यंत्र/2020-21 पत्रांक:-क्.नि./ विषय:-कृषि मशीनों/यंत्रों/उपकरणों के मूल विनिर्माताओं के सूचीबद्ध/पंजीकरण हेतु विज्ञाप्ति के प्रकाशन विषयक।

महोदय.

आपको इस निदेशालय द्वारा कृषि मशीनों / यंत्रों / उपकरणों के मूल विनिर्माताओं के सूचीबद्ध / पंजीकरण हेतु विज्ञप्ति इस अनुरोध के साथ संलग्न कर प्रेषित की जा रही है कि कृपया इस सूचीबद्ध/ पंजीकरण सूचना को न्यूनतम पठनीय साईज अथवा संलग्न साईज कोउउ हिन्दी संस्करण में तत्काल प्रकाशित करने का कष्ट करें। इस विज्ञाप्ति को नियमानुसार समयान्तर्गत प्रकाशित करने हेतु प्राथमिकता प्रदान करने का कष्ट करें।

संलग्नकः-उपरोक्तानुसार।

भवदीय.

क्षि निदेशक उत्तराखण्ड

पत्रांक:-कृ.नि./ 7033 /पंजी./कृषि यंत्र/2020-21/तद्दिनांकित। प्रतिलिपि- निम्नांकित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

भण्डार सहायक कृषि निदेशालय, उत्तराखण्ड।

कंशियर कृषि निदेशालय, देहरादृन, उत्तराखण्ड।

 तनुजा मासीवाल, कनिष्ठ सहायक, कृषि निदेशालय को इस निर्देश के साथ कि पंजीकरण संबंधी विज्ञप्ति को वेबसाईट www.uk.gov.in तथा www.agriculture.uk.gov.in पर अपलोड करना सुनिश्चित करें।

उत्तराखण्ड।

कृषि निदेशालय उत्तराखण्ड नन्दा की चौकी, प्रेमनगर, देहरादून विञ्चप्ति कृषि मशीनों/यंत्रों/उपकरणों के मूल विनिर्माताओं के सूचीबद्ध/पंजीकरण हेतु सूचना संख्या—1

कृषि विभाग उत्तराखण्ड की विभिन्न अनुदानित योजनाओं के अन्तर्गत राज्य के कृषकों को वितरित किए जाने वाले यंत्रॉं/उपकरणों के ऐसे विनिर्माताओं (Original Manufacturer) से सूचीबद्ध/पंजीकरण हेतु आवेदन पत्र आमंत्रित किए जाते हैं, जो कि आई०एस०आई०/बी०एस०आई०/FMTTI/किसी मान्यता प्राप्त संस्था से परीक्षित हों, मार्क यंत्रों का निर्माण करते हों अथवा इन यंत्रों को अपने रिजस्टर्ड ब्राण्ड नेम से विनिर्मित करते हों। प्रदायकों को सूचीबद्ध/पंजीकरण दिनांक से दो वर्ष तक के लिए किया जाएगा। सूचीबद्ध/पंजीकरण हेतु निर्धारित शर्ते एवं आवेदन पत्र का शुल्क रू० 2000/- (रूपये दो हजार मात्र) होगा, कृषि निदेशालय उत्तराखण्ड, नन्दा की चौकी, प्रेमनगर देहरादून से किसी भी कार्य दिवस में दिनांक 27.04.2021 तक (सांय 5:00 बजे तक) प्राप्त किए जा सकते हैं अथवा www.agriculture.uk.gov.in से खाउनलोड किए गए आवेदन पत्र का प्रिन्ट लेकर रूठ 2000/-का बैंक ड्राफ्ट कृषि निदेशक, उत्तराखण्ड के नाम पर बनाते हुए आवेदन पत्र के साथ संलग्न कर दिनांक 28.04.2021 को सांय 5:00 बजे तक सूचीबद्ध / पंजीकरण हेतु डाक के माध्यम से अथवा स्वंय कृषि निदेशालय में रखे बॉक्स में डाले जा सकते हैं। आवेदन पत्र के साथ धरोहर राशि का राष्ट्रीयकृत बैंक की बैंक गारन्टी/एफ.डी.आर. भी उपलब्ध कराना होगा। जिन यंत्र निर्माताओं के यंत्रों का सूचीबद्ध / पंजीकरण वर्ष 2018 एंद 2019 में किया गया है। उनका पंजीकरण समाप्त हो गया है। ऐसे सगस्त निर्माताओं को पुनः यंत्रों के सूचीबद्ध/पंजीकरण हेतु आयेदन करना होगा। जिसके साथ टेस्ट रिपॉट व अन्य पपत्र तथा शुल्क जमा करना होगा। इस हेतु ये भी व्यवस्था दी जा रही है कि जिन निर्माताओं के यंत्रों की टेस्ट रिपॉट की वैचता समाप्त नहीं हुई है वह निर्माता जिन यंत्रों के लिए आवेदन करेगा उसका आवेदन शुल्क रू0-2000.00 जमा करना होगा। अन्य पपत्र जमा करने की आवश्यकता नहीं होगी। वर्ष 2020-21 में सूचीबद्ध/पंजीकरण किए गए निर्माता के यंत्रों का पंजीकरण कराने की आवश्यकता नहीं है, परन्तु जिन यंत्रों की टेस्ट रिपोर्ट भारत सरकार के निर्देशानुसार समाप्त हो रही है, तो उनकों भी सूचीबद्ध/पंजीकरण हेतु आवेदन पत्र समस्त पपत्रों टेस्ट रिपॉट व शुल्क के साथ उपलब्ध कराना होगा। कृषि एवं किसान कल्याण मंत्रालय भारत सरकार की वेबसाईट www.agrimachinery.nic.in पर विनिर्माता सूचनाएं सीधे अपलोड भी करेंगे।

ह०/कृषि निदेशक, उत्तराखण्ड।



कृषि मशीन/यंत्र/उपकरण के सूचीबद्ध/पंजीयन हेतु आवेदन पत्र तराखण्ड

	पंजीकरण फार्न संख्या दिनांक 17:03:202/ सील
	मूल्य 2,000.00 रै प्रति फार्म
 सूचीबद्ध / पंजीयन हेतु प्रस्तावित यंत्र / उ 	ण का नाम: पकरण का नाम एवं ब्राण्ड यदि कोई हो तो:
(1) ब्राण्ड नेम की वैधता तिथि	
2. विनिर्माता फर्म के अध्यक्ष / प्रबन्ध निदेशक	5 का नाम:
 विनिर्माता फर्म का नाम व पूरा पता फैक्स 	१/फोन नं0 आदि सहित:
 सूचीबद्ध / पंजीयन हेतु प्रस्तावित यंत्र / उ 	पकरण के मानक स्तर का विवरण:
आई०एस०आई० / बी०आई०एस०	
(२) अधिकत मार्क की संख्या	
(३) अधिकत मार्क की बैद्यता तिथि	
(a) हेक्टिंग रिपार्ट जिसे कि भारत सरव	जर द्वारा मान्यता प्रदान की गयी है का विवरण
भि गंद /जयकरण पर लाग होता	<u> </u>
 सूचीबद्ध / पंजीयन हेतु प्रस्तावित यंत्र / उ 	उपकरण के विनिर्माण का विवरण:
8. सूचाबद्ध / पंजाय । एंचु अस्तान प्रजीकरण प्रमा	ण पत्र)
(1)(राज्य उद्यान विनान, नजान्य /स्थान (८) क्रेन्सी जना स्थान है। राज्य /स्थान	L
(2) फेक्ट्रा जहां स्थित है। संबंध	19
(3) लाइसस सख्या य जारान यद्या त	विरण
 वत्र/उपकरण का सल्क लाइक पन एक ह. सूचीबद्ध/पंजीयन फार्म प्राप्ति हेतु जम् 	व की गयी धनराशि का विवरण।
8. सूचीबद्ध/पंजीयन फाम प्राप्त हेर्दु जन	-2)/बैंक ड्राफ्ट का विवरण
अ- विभागीय केश रसाद संख्या- (D	2// 44/ 9/10 11
 बैंक ड्राफ्ट / बैंक गारन्टी हेतु नामित वै 	(2) बँक का नाम
(1) प्रकार	13
(3) संख्या एवं तिथि	INCONVENIONE USA
10. यंत्र / उपकरण की आपूर्ति का माध्यम	/ स्रोत:-
(आपूर्ति जिस डिपो से की जायेगी उ	अस डिपो धारक का नाम व डाक पता, फोन एवं फैक्स नं
अंकित करें)	
44 विजियांता फर्म का पैन नम्बर	

12. f	निर्माता फर्म केन्द्रीय जीoएसoटीo पंजीकरण संख्या-
13. f	विमर्गता फर्म उत्तराखण्ड जी०एस०टी० कर पंजीयन संख्या
(t	वंजीकरण प्रमाण पत्र संलग्न करें)
	विनर्माता फर्म के कार्य क्षेत्र का विवरण:- (1) सम्पूर्ण राज्य/चयनित जनपद (चयनित जिला हो
	ो उत्लेख किया जाये)
15. f	वेतरको को राज्य के जिलों में स्थापित नेटवर्क (अधिकृत विकेताओं की सूची जो यंत्र विकय के उपरान्त सेवा प्रदान करेंगे उनके विर्निमाता द्वारा अधिकृत प्रमाण-पत्र, पता एवं फोन नम्बर आदि
	हा विवरण संलग्न किया जाये
16. 3	म्या विर्निमाता फर्म को कभी ब्लैक लिस्ट किया गया है "हां " और "नहीं" में उल्लेख किया
	नाये (100.00 के स्टाम्प पेपर पर इस आशय का प्रमाण-पत्र सलंग्न किया जाय)
17. 3	त्या विनिर्माता फर्म के विरूद्ध किसी केन्द्र शासित प्रदेश/प्रदेश में आपूर्ति विषयक कोई
f	वेवाद/विधिक कार्यवाही चल रही है/लम्बित है, अथवा निष्पादित हुई हैं, यदि हां तो पूर्ण
	वेवरण दें
1	नोट:— 1 . प्रत्येक बिन्दु से संबन्धित प्रमाण पत्र/अभिलेख/कागजात की प्रतियां उपरोक्त कम में
	ही संलग्न की जायें।
	 प्रत्येक कृषि यंत्र / उपकरण हेतु अलग—अलग तकनीकी प्रपत्र भरा जाएगा।
	निर्धारित सूचीबद्ध / पंजीयन हेतु शर्तो पर सहमति
मेर	द्वारा उपरोक्त सभी शर्त भली-भॉति पढ़ ली गयी है तथा मैं सभी शर्तों से पूर्णतयाः सहमत हूँ।
	विनिर्माता फर्म/प्रदायकर्ता/पंजीकरण प्राधिकारी के हस्ताक्षर
	पूर्ण पता
	फोन नम्बर
	फैक्स नम्बर
	E-mail:
	सील

कृषि मशीनों / यंत्रों / उपकरणों के सूचीबद्ध / पंजीयन हेतु निर्धारित शर्ते एवं नियम

- 1. सभी विनिर्माता (Original Manufacturer) को विभाग द्वारा सूचीबद्ध/पंजीकरण फार्म का मूल्य बिकी कर सहित ₹ 2000/- (दो हजार रूपये मात्र) में उपलब्ध होगा, फार्म कृषि निदेशालय, उत्तराखंड, नन्दा की चौकी, प्रेमनगर, देहरादून से प्रत्येक कार्य दिवस में नगद धनराशि जमा कर प्रातः 11:00 बजे से 5.00 तक दिनांक-27.04.2021 तक प्राप्त किये जा सकेंगे। पंजीकरण फार्म दिनांक-28.04.2021 तक कृषि निदेशालय, उत्तराखंड देहरादून, नंदा की चौकी, प्रेमनगर, देहरादून के कार्यालय में साथ 5.00 बजे तक नियोजन/आर.के.वी.वाई. प्रकोष्ठ में पंजीकृत डाक अथवा स्वंय द्वारा जमा किये जा सकेंगें। क्रय सम्बन्धी आवेदन शुल्क रू० 2000/का कृषि निदेशक उत्तराखण्ड के नाम का बैंक ड्राफ्ट अथवा विभागीय रसीद (D-2) फार्म के साथ अनिवार्य रूप से संलग्न की जाय। लिफाफें के ऊपर "सूचीबद्ध / पंजीकरण हेतु यंत्र का नाम" अवश्य अंकित किया जाय।
 - 2. सूचीबद्ध पंजीकृत किये जाने वाले कृषि मशीनों / यंत्रों / उपकरणों को आई०एस०आई० / बी0आई0एस0 मार्क के होंगे तथा FMTTI या भारत सरकार द्वारा किसी मान्यता प्राप्त संस्था से परीक्षित होने चाहिए। फर्म को इस आशय का प्रमाण-पत्र पंजीकरण प्रपत्र के साथ सलंग्न करना आवश्यक होगा। FMTTI या भारत सरकार द्वारा किसी मान्यता प्राप्त संस्था द्वारा जारी की गयी टेस्ट रिपोर्ट की वैद्यता अपर आयुक्त (मशीनरी), कृषि एवं किसान कल्याण मंत्रालय कृषि सहकारिता एवं किसान कल्याण विभाग (мат अनुभाग), भारत सरकार, नई दिल्ली के पत्रांक- 13-24/2018-M&T (I&P), दिनांक 19 सितम्बर, 2018 द्वारा जारी दिशा-निर्देश एवं संशोधित गाईंडलाईन के अनुसार के अनुसार अनिवार्य है।
 - पंजीकृत किये जाने वाले यंत्रों का विवरण निम्नानुसार है, जिनके स्पेसिफिकेशन सलंग्नक में
 - 1— वाटर लिफ्टिंग पंप-विद्युत/डीजल/केरोसीन चालित, जो BIS/ISI मार्क का हो।
 - 2- ट्रैक्टर/पावर टिलर चालित यंत्र- भारत सरकार द्वारा नामित किसी भी संस्थान/FMTTI से परीक्षित हाँ।
 - 3.- सेल्फ प्रोपलेड मशीनरी-भारत सरकार द्वारा नामित किसी भी संस्थान/FMTTI से परीक्षित
 - 4- पशु चालित यंत्र भारत सरकार द्वारा नामित किसी भी संस्थान/FMTTI से परीक्षित हों।
 - 5— मानव चालित यंत्र भारत सरकार द्वारा नामित किसी भी संस्थान/FMTTI से परीक्षित हाँ।
 - 6— कृषि रक्षा यंत्र-मानव चालित तथा ट्रैक्टर एवं शक्ति चालित-कृषि रक्षा यंत्र जो BIS/ISI मार्क या भारत सरकार द्वारा नामित किसी भी संस्थान/FMTTI से परीक्षित हाँ।
 - कृषि मशीनों / यंत्रों / उपकरणों की विशिष्टियां (Specification) पंजीकरण फार्म के साथ अनिवार्य रूप से संलग्न करनी होगी। इस के साथ ही फर्म को कृषि मशीनों/यंत्रों/ 4. उपकरणों की गुणवत्ता संबंधी प्रमाण-पत्र की सुस्पष्ट प्रतियां संलग्न करना अनिवार्य होगा।
 - सूचीबद्ध/पंजीकृत फर्म द्वारा कृषि मशीनों/यंत्रों/उपकरणों की वर्तमान दरें भारत सरकार की Agrimachinery.nic.in पर DBT Agriculture Machinazation पर अंकित की जाय, 5. जो पंजीकरण तिथि से एक वर्ष तक परिवर्तनीय नहीं होगी।

सूचीबद्ध/पंजीकरण हेतु मूलविनिर्माता को सबसे पहले agrimachinery.nic.in में DBT Agriculture Machinazation पर यंत्रों / मशीनों / उपकरणों की समस्त जानकारी अपलोड करनी होगी। जिस भी मूलविनिर्माता द्वारा जानकारी अपलोड नहीं की जाती है उसका सूचीबद्ध / पंजीकरण से संबंधित प्रपत्र स्वीकार नहीं किया जाएगा।

भारत सरकार के पत्र संख्या-13-9/2019-M&T (I&P)-Part, दिनांक 26 अप्रैल, 2019 द्वारा जारी विभिन्न यंत्रों के स्पेसिफिकेशन के आधार पर ही यंत्रों / मशीनों / उपकरणों को 7.

सूचीबद्ध / पंजीकृत किया जाएगा।

पंजीकरण प्रस्ताव केंवल मूल विनिर्माता फर्मो (Original Manufacturer)/मूल विनिर्माता 8.

द्वारा अधिकृत डीलर से ही स्वीकार किये जायेंगे।

यदि यंत्रों के मूल विनिर्माता देश से बाहर के है तथा उनके द्वारा देश में फर्म को Authorised Dealership दी गई है, जिससे उक्त फर्म यंत्र को देश में विकय कर सकती 9. है। इस आशय का प्रमाण-पत्र, जो कि मूल विनिर्माता के द्वारा दिया गया हो, संबंधित फर्म को पंजीकरण प्रपत्र के साथ सलंग्न करना होगा।

- प्रदायकों को कृषक / मुख्य कृषि अधिकारी / कृषि एवं भूमि संरक्षण अधिकारी के आदेश एवं दिशा निर्देश के अनुसार कृषक / जनपद / विकासखण्ड स्तर / न्याय पंचायत तक यंत्र उपलब्ध 10. कराने होंगे। इस हेतु प्रदायकों को जिला स्तर पर अपना नेटवर्क स्थापित करना होगा। प्रदायक द्वारा जिले में नियुक्त अधिकृत विकंता के पास जी०एस०टी० पंजीकरण तथा विकय उपरान्त सेवा की सुविधा उपलब्ध करायी जानी आवश्यक होगी। प्रदायकों की यह जिम्मेदारी होगी कि वे उनके द्वारा विकय की गयी सामग्री के लिये उचित मूल्य पर पुर्जे तथा विकय उपरान्त सेवा की सुविधा कृषकों को उपलब्ध करावें। लाभार्थियों को इसके लिये प्राप्त अनुरोध पत्र से 15 दिनों के अन्दर यदि यह व्यवस्था नहीं की जाती है, तो यथा आवश्यक कार्यवाही की जायेगी। विर्निमाता फर्म को अपने प्रस्ताव के साथ वर्तमान में जनपदवार उपलब्ध / नियुक्त अधिकृत विकताओं / डीलरों की सूची, जो कि फर्म के मैनेजिंग डायरेक्टर अथवा सक्षम प्राधिकारी द्वारा प्रमाणित की गई हो, को संलग्न करना होगा।
 - फर्म द्वारा कृषि मशीनों / यंत्रों / उपकरणों पर लेबलिंग प्लेट को riveted किया जाना अनिवार्य होगा, जिस पर निर्माता का नाम एवं पता मेक / मॉडल सीरियल नम्बर निर्माण का माह एवं वर्ष, टाईप, साईज, किस देश में निर्मित किया गया है लिखा होना चाहिए। इसके अतिरिक्त उपलब्ध कराए जा रहे स्पेसिफिकेशन में मार्किंग/लेबलिंग हेतु दिए गए निर्देशों का पालन किया जाए।
 - सूचीबद्ध/पंजीकरण हेतु आवेदनकर्ता/मूल विनिर्माता फर्म को केन्द्रीय/राज्य व्यापार कर विभाग से पंजीकृत होना अनिवार्य है, साथ ही पंजीकरण प्रमाण पत्र की सुस्पष्ट छाया प्रति भी फार्म के साथ संलग्न करनी होगी। प्रदायकर्ता को केन्द्रीय व्यापार पंजीकरण/ जी०एस०टी० एवं आयकर पैन नम्बर की छाया प्रतियां भी संलग्न करनी होंगी।
 - सूचीबद्ध / पंजीकरण के पश्चात यदि पंजीकृत फर्म द्वारा यंत्र की आपूर्ति में यदि किसी प्रकार का व्यवधान उत्पन्न किया जाता है। विवाद की स्थिति में फर्म को कृषि निदेशक, उत्तराखण्ड का फैसला अन्तिम रूप से मान्य होगा।

सूचीबद्ध/पंजीकरण की वैद्यता सूचीबद्ध/पंजीकरण तिथि से 2 वर्ष तक के लिये मान्य

होगी।

- 15. प्रदायकर्ता को पंजीकरण फार्म के साथ प्रत्येक यंत्र हेतु मु0 ₹ 25000/- (पच्चीस हजार रूपये मात्र)/₹ 50000 (पच्चास हजार रूपये मात्र) की बैंक गारन्टी/FDR जो कि कृषि निदेशक, उत्तराखण्ड के नाम हो तथा किसी राष्ट्रीय कृत बैंक से देय हो, सलंग्न करनी होगी।
- 16. सूचीबद्ध/पंजीकरण हेतु निम्नानुसार पंजीयन शुल्क (Non Refundable) तथा बैंक गारन्टी/बैंक ड्राफ्ट पृथक-पृथक निम्नानुसार यंत्रवार देने होंगे। पंजीकृत किये जाने वाले यंत्रों की सूची का विवरण निम्न प्रकार है।

車 0 सं0	सूचीबद्ध / पंजीकरण होने वाले कृषि मशीनों / यंत्रों / उपकरणों का विवरण	पंजीयन शुक्क (₹ प्रति यंत्र)	राष्ट्रीयकृत बैंक की BG/ Bank Draft / FDR (₹ प्रति यंत्र)	अभ्युक्ति
	Self Propelled Machines			Tested by
1	(a) Rice Transplanter	2000.00	50000.00	FMTTI/ Institute
	(b) Reaper cum Binder	2000.00	50000.00	identified by
		2000.00	50000.00	Gol
	(c) Reaper (d) Power Weeder (engine operated/self propelled also)	2000.00	50000.00	marked by
2	in Tillon driven			Tested by FMTTI/
	(a) MB Plough/ Disc Plough/ Ridger/ Cultivator/Harrow/ Weed	2000.00	50000.00	Institute Identified by Gol
	Slasher/ Leveller Blade (b) Zero Till Seed cum Fertilizer	2000.00	50000.00	
	Drill/Seed Drill (c) Laser Land Leveller	2000.00	50000.00	
	(d) Rotavator	2000.00	50000.00	
	The state of the s	2000.00	50000.00	
	(e) Reaper (f) Multi Crop Thresher/Thresher/ Brush Cutter/Chaff Cutter (also	2000.00	50000.00	
	by engine/electric motor)	2000.00	50000.00	
	(g) Straw Reaper	2000.00	50000,00	
	(h) Rice Mill/Dall Mill	2000.00	50000.00	
	(i) Happy Seeder (j) All type of grinder/ pulveriser/ polisher (for all types of horticulture/food grain /oilseed	2000.00	50000.00	
-	(k) Balers	2000,00	50000.00	
+	3 Manual/Animal driven Equipments			Tested by FMTTI/ Institute
	(a) Thresher	2000.00		identified
	(b) Seed cum Fertilizer Drill	2000.00		by GoI
	(c) Puddler/Weeder/Conoweeder/	2000.00	25000.00	Tested by

Φ0 ゼ0	सूचीबद्ध / पंजीकरण होने वाले कृषि मशीनों / यंत्रों / उपक त्णों का विवरण	पंजीयन शुल्क (र प्रति यंत्र)	राष्ट्रीयकृत बैंक की BG/ Bank Draft/FDR (₹ प्रति यंत्र)	अभ्युक्ति
1	Harrow/Cultivator/MB plough/ Disc Plough/Winnowing Fan			FMTTI/ Institute
1	(d) Chaff Cutter	2000.00	25000.00	identified by Gol
	(e) Garden Hand Tools/Horticulture hand tool	2000.00	25000.00	0.00.00.00
4				BIS/ISI mark or tested by
	(a) Manual Sprayer - Knapsack / Foot Sprayer	2000.00	50000.00	FMTTI/ Institute identified by Gol
	(b) Power Knapsack Sprayer/ Power Operated Sprayer			
	(c) Tractor Mounted/Operated Sprayer			BIS/ISI
5		2000.00	50000.00	mark

17. भारत अथवा उत्तराखण्ड राज्य द्वारा यदि टैक्स/ड्यूटीज/आदि प्रदत्त सुविधा में कोई कटौती अथवा बढ़ोतरी/परिवर्तन किया जाता है. तो पंजीकृत फर्म के स्वामी का यह दायित्य होगा कि वह इसकी सूचना कृषि निदेशक, उत्तराखण्ड, देहरादून को तत्काल उपलब्ध करायेंगे।

18. यदि विभाग चाहे तो पंजीकरण व्यवस्था को किसी भी समय नवीनीकृत अथवा समाप्त किया जा सकता है। किसी भी विवाद की स्थिति में न्याय क्षेत्र जनपद देहरादून होगा।

 यदि फर्म के मानक सम्बन्धी प्रमाण पत्रों की वैद्यता तिथि से पूर्व समाप्त होती हैं, तो फर्म को नवीनीकृत पंजीकरण उपलब्ध कराना अनिवार्य होगा, अन्यथा फर्म का पंजीकरण समाप्त कर दिया जायेगा।

20. प्रदायकों को सामग्री की गुणवत्ता, स्थापना, सामग्री का बदलाव (Replacement) विकय उपरान्त सेवा इत्यादि की भी जिम्मेदारी लेनी होगी तथा उनके द्वारा प्रदाय की गयी सामग्री की न्यूनतम एक वर्ष की गारंटी / वांरटी भी देनी होगी।

 प्रदायकों को यंत्र प्रदाय के उपरान्त यंत्र को चलाने और उसके रख-रखाव की तकनीकी जानकारी से कृषकों को सन्तुष्ट करना होगा ।

22. प्रदाय की जाने वाली सामग्री का निरीक्षण विभागीय अधिकारियों द्वारा किया जा सकेगा। गुणवत्ताहीन सामग्री के प्रदाय आदि के बारे में प्राप्त शिकायत के प्रमाणित होने पर सम्बन्धित प्रदायक का पंजीकरण निरस्त किया जायेगा और ऐसी फर्म को काली सूची में रखें जाने का निर्णय लिया जायेगा।

23. प्रदायकों द्वारा समय-समय पर निदेशालय को वांछित जानकारी उपलब्ध करानी होगी। समय पर जानकारी उपलब्ध न कराये जाने पर सम्बन्धित फर्म को पंजीकृत सूची से अलग किया जा सकता है।

24. फर्म द्वारा कृषि यंत्र की प्रस्तुत दर अन्य किसी राज्य में स्वीकृत दर से किसी भी दशा में अधिक नहीं होनी चाहिए तथा यंत्रों की दरें पंजीकरण की तिथि से 1 वर्ष तक परिवर्तित नहीं की जाएंगी। (रू० 100.00 के स्टाम्प पेपर पर इस आशय का प्रमाण-पत्र सलंग्न किया जाय)।

विनिर्माता फर्म द्वारा सूचीबद्ध/पंजीकरण कराये जाने वाले यंत्रों के टैक्निकल स्पेसिफिकेशन 25. रूप पत्र संख्या-2 पर अनिवार्य रूप से अंकित करने होंगे अन्यथा यंत्र का पंजीकरण किया जाना सम्भव नही होगा।

भारत सरकार की एग्रीमशीनरी पोर्टल के माध्यम से किसान द्वारा क्रय किए गए यंत्र की 26. विकेता को धनराशि देकर यंत्र, मशीनरी, उपकरण क्रय कर लिये जाने के उपरान्त कृषि विभाग के विभागीय अधिकारियों / कर्मचारियों द्वारा मौतिक सत्यापन सुनिश्चित किया जाएगा। सत्यापन के उपरान्त अनुदान की धनराशि सीधे किसान के बैंक खाते में / डीलर को डी.बी. टी. के माध्यम से उपलब्ध कराया जाएगा।

निर्माता फर्म को यह अधिकार होगा कि उनके द्वारा नियुक्त किये गये अधिकृत विकेता को परिवर्तन कर सकेंगे. परन्तु ऐसा करते समय विनिर्माता कर्म को कृषि निदेशालय को तत्काल 27.

लिखित में सूचित करना होगा।

सूचीबद्ध / पंजीकरण प्रमाण पत्र विकय परिसर में ऐसी खुली जगह पर प्रदर्शित किये जायेंगे, 28. जिसे कृषक / सामान्य व्यक्ति आसानी से देख सके।

शासन द्वारा समय-समय पर जारी शासनादेशों / दिशा निर्देशों के अनुसार सूचीबद्ध / 29.

पंजीकरण की शर्तों / नियमों में तदनुसार परिवर्तन किया जा सकेगा।

प्रदाय की गई कोई भी जानकारी कभी भी असत्य पाये जाने की दशा में सूचीबद्ध/पंजीयन निरस्त कर दिया जायेगा तथा आवश्यकतानुसार वैधानिक कार्यवाही भी की जायेगी। 30.

क्य किया गया सूचीबद्ध / पंजीकरण प्रपत्र किसी अन्य प्रदायकर्ता को न तो विकय किया जा 31. सकेगा और न ही हस्तान्तरित किया जा सकेगा।

सूचीबद्ध/पंजीकरण प्रपन्न डाक अथवा व्यक्तिगत रूप से कृषि निदेशालय, उत्तराखण्ड को 32.

उपलब्ध कराया जायेगा।

आपूर्तिकर्ताओं की आम ख्याति, विनिर्माण क्षमता, गुणवत्ता नियंत्रण प्रणाली, पूर्व कार्यों की परफॉर्मेन्स प्रगति तथा आपूर्ति पश्चात दी जाने वाली सेवाओं का प्रमाण पत्र प्रस्तुत करना 33. होगा। प्रतिकूल दशा में जिले स्तर से भी आपूर्तिकर्ता की आम ख्याति के सम्बन्ध में जानकारी ली जायेगी।

मुख्य कृषि अधिकारियों द्वारा सूचीबद्ध / पंजीकृत आपूर्तिकर्ताओं की परफॉर्मेन्स / आचरण पर निगरानी रखी जायेगी। विपरीत रिपोर्ट मिलने पर सूचीबद्ध/पंजीकरण रदद करने की 34. कार्यवाही की जायेगी। यदि पंजीकृत फर्म समय से आपूर्ति नहीं करती है, निम्न गुणवत्ता की आपूर्ति करती है, गलत घोषणा तथा तथ्य प्रस्तुत करता है अथवा राज्य सरकार की दृष्टि में कोई अन्य आधार जो जनहित में न हो, मुख्य कृषि अधिकारी/किसानों की शिकायत के आधार पर अनुमोदित सूची से नियमानुसार हटा दिया जायेगा। कवि निदेशक,

तत्तराखण्ड ।

List of Tractor/Power Tiller Driven Equipments (Tested by FMTTI or Institute designated by DAC)

- MB Plough/ Disc Plough/Cultivator/Harrow/ Weed Slasher/ Ridger 1-
- Zero till seed cum fertilizer drill 2-
- Laser land leveller 3-
- Leveller blade 4-
- Rotavator 5-
- Reaper 6-
- Power weeder (engine operated also) 7-
- Seed drill 8-
- Multi crop thresher/ Paddy thresher/ Thresher/ Brush cutter/ Chaff 9cutter (Also by engine/electric motor)
- Straw reaper 10-

List of Self Propelled Machinery (Tested by FMTTI or Institute designated by DAC)

- Rice Transplanter 1-
- Reaper cum binder 2-
- Reaper 3-
- Power Weeder 4-
- Mini Rice Mill/Mini Dal Mill/Millet Mill 5-
- All type of grinder/pulveriser 6-

List of Manual/Animal Drawn Equipments/ Implements/Tools

(Tested by FMTTI or Institute designated by DAC)

1-	Thres	her

- 2- Puddler
- 3- Seed Cum Fertilizer Drill
- 4- Weeder/Conoweeder
- 5- Harrow
- 6- Cultivator
- 7- MB Plough
- 8- Disc Plough
- Chaff Cutter
- 10- Winnowing fan
- 11- Garden hand tools
- 12- Horticulture Hand Tools

List of Plant Protection Equipments (Manual/Tractor/Power)

(ISI/BIS or Tested by FMTTI or Institute designated by DAC)

- 1- Manual Sprayer-Knapsack/Foot Sprayer
- 2- Power Knapsack Sprayer/Power Operated Sprayer
- 3- Tractor mounter/Operated Sprayer

प्रपत्र-1

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प्रतिदिन कार्य क्षमता	o				

Format-2 Technical Specification

		-		क्रा
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		6		मशीन/यंत्र का नाम
				मेक महत्त
			on	वंत्र का स्पेसिफिकेशन
			o	टेस्टिंग संस्था का नाम
			7	वंत्र के टेस्ट रिपोर्ट का विवरण
			a	रेस्ट रिपोर की वैद्यता तिथि
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Annexure

SUPER STRAW MANAGEMENT SYSTEM (SMS) TO BE ATTACHED WITH COMBINE HARVESTER

SI.	Parameters	specifications			
No.		Self-Propelled	Track Type		
		Rotor			
1.	Rotor diameter, mm	165-170	73 (Min.)		
2.	No. of lugs on rotor in a row	6	4 (Min.)		
3.	No. of rows in periphery	4	2 (Min.)		
4.	Length of pivotal flail, mm	170-180	120 (Min.)		
5.	Width of flail, mm	50±1	40 (Min.)		
6.	Thickness of flail, mm	5.0 (Min.)	4±0.1		
7.	No. of flails in one set	2	2		
8.	Spacing between flails of one set, mm	35 (Max.)	35 (Max.)		
9.	Distance between adjacent flail units, mm	200±10	200±10		
10.	No. of rows/bars of serrated blades	1	1		
11.	No. of serrated blades in a row	of serrated blades in a row 24			
12.	Spacing between serrated blades, mm	50 (Max.)	50 (Max.)		
13.	Overlapping of pivotal blade on serrated blade, mm	60 (Min.)(adjustable)	60 (Min.) (adjustable)		
		Spreader			
14.	Total no. of flaps	6 + 2 (side)	6+2 (side)		
15.	Length of flap, cm	47±2	-		
6.	Distance between flaps (left to right)	adjustable	adjustable		

17.	Spreader angle with horizontal, degree	Adjustable preferably downwards	Adjustable preferably downwards	
18.	Spreader angle with line of travel, degree	15 (Min.) (Adjustable)	15 (Min.) (adjustable)	
19.	Spreader sheet thickness, mm	2.5-3.0	2.5-3.0	
20.	SMS Sheet thickness, mm	5.0 (Min.)	5.0 (Min.)	
21.	Rotor balancing	should be dynamically balanced	Should be Dynamically balanced	
22.	Rotor rpm	Min 1600	1600 min.	
23.	Fitting of SMS on combine harvester	Rigidly fixed to the combine chassis	Rigidly fixed to the combine chassis	
24.	Fitting of power transmission system on combine harvester	Rigidly fixed to the combine chassis	Rigidly fixed to the combine chassis	
25.	Marking/labeling of machine	Labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, required size of prime mover (kW,), Weight of the machine(Kgs)	machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer,	
26.	Literature	Operator manual, Service manual and Parts catalogue should be provided	Operator manual, Service manual and Parts catalogue should be provided	

For performance and Safety standards refer to IS 15806-2018

2. HAPPY SEEDER

SI.No.	Parameters	Specifications	
1.	No. of tynes	9/10/11/12/13	
2.	Row to row distance (mm)	225 ±2 (Adjustable)	
3.	Type of furrow openers	Inverted T-type	
4.	Minimum Rotor drum diameter(with flail blades)		
5.	Rotor shaft diameter, mm	135-145	
6.	Rotor RPM	1400-1600 rpm at 540/1000 rpm of tractor PTO	
7.	Types of blades	Flail, reversible straight, gamma type	
8.	Blade material	Boron 28MnCrB ₅ /High carbon Steel EN42j	
9.	Diameter of ground wheel, mm	550 (minimum)	
10.	Blade overlapping above furrow openers, mm	50-60	
11.	Seed and fertilizer hoppers	Separate Hoppers (trapezoidal shape) for Fertilizer and Seeds with mechanism for feed rate control. The hoppers should be sufficiently covered to prevent the entry of water. The thickness of sheet should be ≥ 1.0 mm for mile steel and ≥ 0.63 for GI sheet	
12.	Seed and fertilizer tubes	Without any sharp bend and should be transparent plastic, thickness (minimum 2.5 mm)	
13.	Seed and Fertilizer metering mechanism	Components of fluted roller or plate type	
	Rotavator shield to prevent flying of mud & stone	must be provided	
	Safty	Safety cover must be provided on all moving parts	
16.		The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, (Number of rows x Row spacing (cm), Name of crops sown Recommend, required size of prime mover (kW), weight of the Machine, (kg)	
17.		must be provided	
18.		Operator manual, Service manual and Parts catalogue should be provided	

3. PADDY STRAW CHOPPER

SI.No.	Parameters	specifications
1.	Machine type	Tractor operated
2.	Working width, mm	1800 (min.)
3.	Speed of cutter bar, (No. of strokes/min)	800±50
4.	No. of row of flails	4
5.	No. of flails on each rows	4 (min)
6.	Shape of the flail	Flat Bar type
7.	Cylinder dia. of chopping mechanism, cm	Large cylinder – 80/57 ; Small cylinder- 40/25
8.	No. of rows of serrated blades on chopping cylinder	Large cylinder – 14/10; Small cylinder- 6/6
9.	No. of rows of serrated blades on inside the concave	Large cylinder - 2-3; Small cylinder - 1
10.	No. of blades on each rows	17-22
11.	Material of Blade	Boron (28MnCrB5) / High Carbon Steel EN 42 j (Min)
12.	Hardness ,HRC	38 (Min.)
13.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, required size of prime mover (kW)
12	Literature	Operator manual, Service manual and Parts catalogue should be provided

4. SHRUB MASTER

SI.No.	Parameters	Specifications
1.	Size (mm) (Square)	1200 to 1800
2.	Cutting Height (mm)	50 (Max.)
3.	Weight (Kg)	200 (Min.)
4.	Blade material	Boron (28MnCrB5) / High Carbon Steel EN 42j (Min)
5.	Hardness, HRC	36 (Min.)
6.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, required size of prime mover (kW), Weight of the machinery.
7	Literature	Operator manual, Service manual and Parts catalogue should be provided.

5. Hydraulically Reversible MB Plough

SI.No.	Parameters	Specifications
1.	Number of Bottoms	One /Two/Three/Four
2.	Working width (mm)	250 (Min) per bottom
3.	Under frame Clearance, mm (adjustable)	700 (Min.)
4.	Inter body Clearance, mm	700 (Min.)
5.	Reversing mechanism	Hydraulically
6.	Angle of Inclination of MB along the direction of travel (degree)	20 to 23
7	a. Thickness of Mould Board (mm)	8.0 (Min.)
	b. Hardness (HRC)	Min 38
8.	a. Plough Share Bar thickness (mm)	12 (min.)
	b. Material	Boron (28MnCr B5) / High Carbon Steel EN 42j (Min)
	c. Hardness (HRC)	38
9.	Vertical Suction, mm	6 to 19
10.	Horizontal suction, mm	3 to 20
11	Thickness of Share cutting edge (mm)	2.0 to 5.0 and should be uniform
12	Joint Mechanism for share , Mould board and share bar	By Appropriate Bolts & nuts only.
13.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, required size of prime mover (kW), Weight (kg)
14	Literature	Operator manual, Service manual and Parts catalogue should be provided

6. Mulcher

SI.No.	Parameters	Final specifications
1.	Machine type	Tractor PTO driven, Mounted type
2.	Working width, mm	1500 (min.)
3.	Speed of flail rotary, rpm	2000 (Min.) at standard PTO speed.
4.	No. of row of flails	2-4
5.	No. of flails on each rows	14-20
6.	Shape of the flail	Inverted Gamma type
7.	Cylinder dia. of chopping mechanism, cm	48 (min.)
8.	No. of rows of serrated blades on inside the concave	2-3
9.	No. of blades on each rows	17-21
10.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, required size of prime mover (kW), weight(Kg)
13	Literature	Operator manual, Service manual and Parts catalogue should be provided.

7. ZERO TILL SEED CUM FERTILIZER DRILL

SI.No.	Parameters	specifications
1.	No. of tynes	9/11/13/15/17/19/21
2,	Row to row distance, mm	150 to 225 (adjustable)
3.	Type of furrow openers	Inverted T-type
4.	Minimum diameter of ground wheel ,mm	300
5.	Seed and fertilizer hoppers	Separate Hoppers (trapezoidal shape) for Fertilizer and Seeds with mechanism for feed rate control. The hoppers should be sufficiently covered to prevent the entry of water. The thickness of sheet should be ≥ 1.0 mm for mild steel and ≥ 0.63 for GI sheet
6.	Working width, mm	1500 (min)
7.	Seed and fertilizer tubes	Without any sharp bend and should be transparent plastic, thickness (minimum 2.5 mm)
8.	Seed and Fertilizer metering mechanism	Components of fluted roller or plate type mechanism
9.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, (Number of rows x Row spacing (cm), Name of crops sown Recommend, required size of prime mover (kW), Weight(kg)
10.	Literature	Operator manual, Service manual and Parts catalogue should be provided

8. ROTAVATOR

SI.No.	Parameters	Specifications
1.	Working width (mm)	1200 (Min.)
2.	Type of blade	C/L/J shape as per demand
3.	Overlap, mm	15 (min.)
4.	Thickness of blade (mm)	7-8 (min.)
5.	No. of Blades	30 (Min.)
6.	Total number of flanges	5 (Min.)
7.	Number of blades per flange	6 (max.)
8.	Outer Diameter of rotor shaft with blade ,mm	75 - 90
9.	Rotor diameter, including flange and blade mounted on flange, mm	425 (Min.)
10.	Side Drive	Gear drive
11.	Depth control mechanism	Arc shaped skid on both side of rotavator
12.	Material of blades	Boron (28MnCrB5) / High Carbon Steel EN 42j
13.	Hardness of Blade Material, HRC	38 (Min)
14.	Safety clutch / device(Shear bolt) in PTO drive shaft	must be provided
15.	Rotavator stand	must be provided
16.	Guard over propeller shaft	must be provided
17.	Sheet metal	AS36 / IS 2062
18.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and address o manufacturer, Country of origin, Make, Model Year of manufacturer, Serial number, Type Size, required size of prime mover (kW)
19.	Literature	Operator manual, Service manual and Parts catalogue should be provided

9. Cultivator

SI.No.	Parameters	Specifications
1.	Туре	Rigid or Spring loaded
2.	Hitch Type	Three Point linkage, CAT-I/CAT-II
3.	Number of tine	5,7,9,11 or 13 (11 and above preferable folding)
4.	Working width (meter)	0.8 (Min) 1.05 (Min) 1.35 (Min) 1.65 (Min) 1.95 (Min)
5.	Row to row spacing between tine, mm	
6.	Frame	Shall be Rigid and strong
7.	Type of working tool	Reversible shovel, Sweep and Triangula shovel
8.	Material of tyne	High Carbon sleel for spring loaded & MS for rigid tyne
	Thickness of tyne, (mm)	22 (Min.) & 25(Min)
9.	Material of shovel	High carbon steel EN42j
10.	Hardness of shovel and sweep, HRC	Min 36-45
11	Center to center distance tool bar, mm	450(Min)
12.	Spring Index	4 to 5
13	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, Size, required size of prime mover (kW)
14.	Literature	Operator manual, Service menual and Parts catalogue should be provided

10. Disc Harrow

SI.No.	Parameters	Specifications
1.	Number of disc in each gang	Four (Min.)
2.	Power Source	Tractor operated
3.	Type of Disc	Plain or notched
4.	Diameter of Disc, mm	455 to 660
5.	Gang angle,(°)	Up to 24
6.	Bevel angle, (°)	30 or 40
7.	Length of spool, (mm)	175 or 225±2
8.	Hardness of Disc, HRC	38 to 45
9.	Thickness of beveled edge, (mm)	0.5 to1.5
10.	Width of beveled edge, (mm)	22 (max)
11.	Thickness of Disc, (mm)	5.0 (mini)
12.	Type of center hole	Square/Circular with key
13.	Concavity	82.5±5
14.	Scraper	Must be provided
15.	Material of Disc	Carbon Steel EN 45 equivalent to SAE 1070 grade and Boron Steel EN 10083 (30 MnCr B5)
16.	Hardness HRC	38 (Min) 48 (boron Steel)
17.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, Size, required size of prime mover (kW), Weight (Kg)
18.	Literature	Operator manual, Service manual and Parts catalogue should be provided

11. MOULD BOARD PLOUGHS

SI No	Parameters	Specifications
1.	Number of bottoms	Two/Three/four/five (Subject to availability of Test Reports for 4 & 5 bottoms)
2.	Power Source	Tractor operated
3.	Hitch Type	Three Point linkage, CAT-I/CAT-II
4.	Working Width (mm)	250(Min) per bottom
5.	Vertical suction (mm)	6 to 19
6.	Horizontal suction (mm)	3 to 20
7.	Thickness of Cutting edge, (mm)	2-5 and should be uniform
8.	Thickness of Mould board, (mm)	8 (Min.)
	Hardness ,HRC	36
9.	Thickness of share tool bar , (mm)	12 (Min.)
	Share tool bar material	Boron(30MnCrB5)/ High Carbon Steel En44
	Hardness, HRC	48 (Min.)
10.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, Size, required size of prime mover (kW), weight (Kg)
11.	Literature	Operator manual, Service manual and Parts catalogue should be provided

12. TRACTOR OPERATED DISC PLOUGHS

SI.No.	Parameters	Specifications
1.	Number of bottoms	Two/Three/Four
2.	Hitch Type	Three Point linkage, CAT-I/CAT-II
3.	Working Width (mm)	Two bottom - 600 (Min.)
		Three bottom- 850 (Min.)
4.	Type of Disc	Plain
5.	Diameter of Disc, mm	610 to 810
6.	Disc angle,(°)	42±3
7.	Tilt angle,(*)	15 to 25
8.	Hardness of Disc, HRC	40 (Min.)
9.	Thickness of beveled edge, (mm)	0.5 to 1.5
10.	Thickness of Disc, (mm)	5.0 (Min.)
11.	Material of disc	Carbon Steel EN 45 equivalent to SAE 1070 grade and Boron Steel EN 10083 (30 MnCr B5)
12.	Hardness of material, HRC	38 (min) for carbon Steel 48 (min) for Boron steel
13.	Type of center hole	Square
14.	Concavity, mm	100±6.5
15.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, Size, required size of prime mover (kW), Weight, (kg)
16.	Literature	Operator manual, Service manual and Parts catalogue should be provided

13. Straw Reaper

SI.No.	Parameters	Specifications
1.	Towing hook type	Clevis/Circular
2.	Power input shaft connection to tractor PTO	Propeller shaft with universal joint
3.	Cutting width, mm	1500 to 2500
4.	Speed of chopping cylinder, rpm	800 to 1000
5.	Chopping cylinder dia. mm	700 to 900
6.	PTO drive shaft - Safety against overload - Guard on shaft	Compliant with BIS code Must be provided Must be provided
7.	Safety cover on all drive	Must be provided.
8.	Chopping cylinder blade	Serrated
9.	Material of blade and ledger plate	High carbon steel EN 42J & EN 44
10.	Hardness of Blade and ledger plate, HRC	36 and 45 (Min.)
11.	Provision for concave clearance adjustment	Must be provided
12.	Provision for grain recovery	Must be provided
13.	Reel type	Pick up tyne
14.	Diameter of tyne bar, mm	20 (Min.)
15.	Arrangement for forward & backward movement of reel	Must be provided.
16.	Labeling of lubricating points	Must be provided.
17.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover (kW/Hp)
18.	Literature	Operator manual, service manual & parts catalogue should be provided.

14. SEED CUM FERTILIZER DRILL

SI.No.	Parameters	Specifications
1.	Size/Working width (mm)	No. of furrow openers X spacing between adjacent furrow openers
2.	Type of furrow opener	Shovel (Single point / reversible / spear point) / shoe type/ disc type (flat / concave disc)
3.	Number of furrow openers	9-21
4.	Row spacing (mm)	Adjustable/Step or step less
5.	Type of seed metering mechanism	Fluted roller/Plate type
6.	Type of fertilizer metering mechanism	Fluted roller/Plate/Agitator type
7.	Diameter of ground wheel (mm)	300 (Min.)
8,	Seed/fertilizer hopper sheet thickness (mm)	MS 1.0 (Min.) GI 0.63 (Min.)
9.	Thickness of seed/fertilizer tubes(mm)	Transparent plastic tubes with 2.5 mm (Min.)
10.	Material of furrow opener,	High Carbon Steel EN42j / -Boron(28MnCrB5)
11.	Hardness of furrow openers, HRC	36 (Min.)
12.	Provision for adjusting the row spacing	Must be Provided
13.	Provision for adjusting depth of seed and fertilizer	Must be Provided
14.	Provision for adjusting the seed/fertilizer rate	Must be Provided
15.	Provision of transparent seed/fertilizer tubes	Must be Provided
16.	Provision of foot board	Must be Provided
17.	Provision of covering device / press wheel	Must be Provided
18.	Provision of row marker	Must be provided

19.	Provision of metallic calibration plate	Must be provided
20.	Seed and fertilizer rate adjustment, Kg/ha	Max. 125 and 500 for seed and fertilizer respectively
17.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover (kW/Hp)
21.	Provision of printed literature	Operator manual, Parts catalogue and Service/Workshop manual

15. STRIP TILL DRILL (Tractor Operated)

SI.No.	Parameters	Specifications
1.	Туре	Rotary
2.	Size (mm)	Working width 15. STRIP TILL DRILL (Tractor Operated)
3.	Type of drive	Gear/Chain drive
	Seeding	attachment
4.	Type of furrow opener	Shovel (Single point/ reversible shovel/ spear point)/ shoe type/ disc type (flat/concave disc)
5.	Number of furrow openers	7/9/11/13
6.	Row spacing (mm)	150 to 300 Step/step less
7.	Type of seed metering mechanism	Fluted roller/Plate type
8.	Type of fertilizer metering mechanism	Fluted roller/Plate type/Agitator
9.	Diameter of ground wheel, mm	300 (Min.)
10.	Seed/fertilizer hopper sheet thickness, mm	MS 1.0 (Min.) GI 0.63 (Min.)
11.	Thickness of seed/fertilizer tubes mm	Transparent plastic tubes with 2.5 mm (Min.)
12.	Material of furrow opener	Boron steel (28MnCrB5) High Carbon Steel, C75/EN42j
13.	Hardness of furrow openers, HRC	36 to 45
14.	Provision of safety clutch/ device (shear bolt) in PTO drive shaft	Must be Provided
15.	Provision of rotavator shield to prevent flying of mud & stone	Must be Provided
16.	Guard over propeller shaft	Must be Provided
17.	Provision for adjusting the row spacing	Must be Provided

18.	Provision for adjusting depth of seed and fertilizer	
19.	Provision for adjusting the seed/fertilizer rate	Must be Provided
20.	Provision of transparent seed/fertilizer tubes	Must be Provided
21.	Provision of foot board	Must be Provided
22.	Provision of covering device / press wheel	Must be Provided
23.	Provision of row marker	Must be Provided
24.	Provision of metallic calibration plate	Must be Provided
25.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having name & address of
		manufacturer, country of origin, make, model,
26.	Provision of printed literature	manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover (kW/Hp)
26.	Provision of printed literature	manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover (kW/Hp) Operator manual, Parts catalogue and

16. Laser Leveler

S.No.	Parameters	Specifications
1.	Power Source	Tractor
	Lase	r Transmitter
2,	Laser Source Wattage, mW	< 5.0
3.	Laser Source Range , nm	630 to 680
4.	Laser Class	3A/3R
5.	Operating Temperature .0 C	-20 to +70 ±10%
6.	Compensation Method	Electronic Self Leveling through Steeper Motor
7.	Rotation Speed, rpm	600 (min)
8.	Level Accuracy, mm/30m	1.5 (min)
9.	Operating Diameter, m	600-800
10.	Level Indicator	LED Flash
11.	Power Supply	Internal & External DC Battery with Charger
12.	Enclosure	Rugged with minimum one-meter drop height on concrete
	Lase	er Receiver
13.	Laser Beam Reception	360 °
14.	Vertical Reception Window, mm	Four Windows of 170 to 230 each
15.	Dead Band, mm	10 to 15
16.	LED Display	Red = HI/Low, On Grade = Green
17.	Operating Temperature °C	-20 to + 70 ± 10%
18.	Operating Range, m	400- Radius
19.	Laser RPM	600/1200
20.	Enclosure	Rugged, Aluminum or any other alloy, Rust Proof.
	Co	ntrol Box
21.	On Grade LED's	Green
22.	High/Low LED's	Red
23.	Operating Voltage	10 to 30 VDC, Polarity Protected
24.	Operating Temperature, °C	-20 to + 70 ± 10%
25.	Electrical Connections	All Standard Military Type

26.	Valve Compatibility	Proportional Type (on/off) only
27.	Current Usage, Amp(A)	5 to 10
28.	Switch Options	Raise / Lower, Auto Manual
29.	Enclosure Type	Casted Aluminum or any Alloy, Rust Proof
30.	Cables	Set of Cables with Military Connectors
31.	Accessories	Survey scale, Survey Receiver
	Buc	ket Scrapper
32.	Working Width, mm	1500 to 2500
33.	Bucket Depth, mm	600. (Min)
34.	Material,	MS Sheet, B2062 /EN10130
	Sheet Thickness, mm	10
35.	Blade Height, mm	125±5
36.	Blade Thickness, mm	12 ±0.5
37.	Blade Material	High Carbon Steel, EN8 and above
38.	No of Tyres	2/4 (6X16)
39.	Mast	Rigid Mast/ Gear Mast/ Electric Mast
40.	Hydraulic Cylinder	Automatic Double Acting Hydraulic Cylinder
41.	Hydraulic Valve	Automatic Double Acting Hydraulic Valve assemble with pressure relive valve
42.	Accessories	Set of High-Pressure Hoses, Firm Tripod Stand, Top Link
43.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, mode year of manufacture, serial number, wt in Kotractor kW/hp.
44.	Literature	Operator manual, service manual & part catalogue should be provided

All the laser leveler should be fitted with GPS Tracker

17.

Portable Engine Operated Sprayer

SI.No.	Parameters	Specification
1.	Tank capacity	-
2.	Discharge (ml/min)	8000 (min) at rated speed and rated pressure
3.	Pressure regulator	Must be provided
4.	Horizontal thrown up jet spray m.	6 (Min)
5.	Mass of spray gun, Kg	1.6(Max)
6.	Spray gun marking	Manufacturer name or recognized trade mark, & batch or code number As per BIS code
7.	Marking of nozzle	Manufacture Name/Trade name, Batch or Code number, Nozzle designation must be provided. As per BIS code
8.	Pressure gauge	Must be provided
9.	Safety accessories	Mask, hand gloves and safety goggles, Apron. Gum boots must be provided
10.	Necessary tools & spares	Spanners, set of gasket, measuring jar should be provided
11.	Marking/labeling of sprayer	Must be riveted on the body of sprayer having name & address of manufacturer, month & Year of manufacture, Rated speed, Rated pressure, discharge rate, power rating of engine, SFC of engine.
2.	Literature	Operator manual, service manual & parts catalogue should be provided, One day training

18. POTATO PLANTER

SI.No.	Parameters	Specifications
1.	Туре	Semi-automatic / Automatic
2.	Type of furrow opener	Ridger type with adjustable wings
3.	Number of furrow openers	2/3/4/5
4.	Type of seed metering mechanism	Horizontal revolving ring (Semi-automatic) Belt with cups/ Picker wheel type (Automatic)
5.	Row spacing (mm)	560 to 900 for semi-Automatic
6.	No. of rows of cups per belt	1 (min) for automatic
7.	Diameter of ground wheel, mm	300 to 650
8.	Seed hopper sheet thickness, mm	Mild Steel. 1.0 (Min.) Galvanized steel 0.63 (Min.) (IS: 6813)
9.	Material of furrow opener	High Carbon Steel EN42j / C75 or Higher
10.	Type of power transmission	Sprocket and chain / belt and pulley / geal type with proper guards.
11.	Provision for fertilizer placement	Must be Provided
12.	Provision for changing ridge spacing	Must be Provided
13.	Provision for adjusting the row spacing	Must be Provided
14.	Provision for changing plant spacing	Must be Provided
15.	Provision for adjusting depth of seed	Must be Provided
16.	Provision for adjusting the seed rate	Must be Provided
17.	Provision of foot rest	Must be Provided
18.	Provision of covering device	Must be Provided
19.	Provision of row marker	Must be Provided
20.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model year of manufacture, serial number, size required size of prime mover kW/hp weight(Kg)
21.	Literature	Operator manual, Service manual and Parts catalogue should be provided

19. Tractor operated Aero Blast sprayer

SI.No.	Parameters	Specifications
1.	Tank capacity	100 (Min).
2.	Pressure regulator	Must be provided
3.	Pressure gauge with pressure dampener	Liquid Filled Pressure gauge must be provided
4.	Discharge rate, ml/min	Min. 8000 at rated speed and rated pressure
5.	Strainer at filling hole	Must be provided
6.	Nozzle designation and marking	Designation, manufacturers name or recognised trade mark & batch or code number should be marked
7.	Safety wear	Mask ,Apron, hand gloves, goggles and Gum boots must be provided ,
8.	Provision of drain plug in the tank	must be provided
9.	P.T.O. drive shaft - Safety against overload - Guard on shaft	Must be provided must be provided
10.	Guard on belt pulley drive	Must be provided
11.	Labeling plate of sprayer	Metallic labeling plate should be riveted with following information: Manufactures name, make,model serial number, month & year of manufacture, rated speed, rated pressure and recommended tractor horse power
12.	Literature	Operator manual, service manual & parts catalogue should be provided English, Hindi & regional languages.

20. Manually Operated Knapsack Sprayer

SI.No.	Parameters	Specifications
1.	Tank capacity, I	10, 13 or 16 with tolerance of ±0.5 liter.
2.	Straps, mm	Strap length 800 (min) & width 38 (min.)
3.	Pump discharge, ml/min	> 500 at 300 kPa pressure
4.	Tank filling hole dia, mm	90 (min)
5.	Tank material	Brass, plastic or stainless steel
6.	Lid or cap material	Brass, plastic , stainless steel
7.	Strainer at filling hole & at cut off device	Must be provided
8.	Empty mass of sprayer, Kg	8.0 (Max.)
9.	Delivery hose length, cm	110 (Preferably)
10.	Cushion on strap, mm	Thickness 20 (min) and width 40 (min.)
11.	Back rest cushion	Must be provided
12.	Spray lance marking	Manufacturer name or recognized trade mark, nominal length & batch or code number
13.	Safety accessories	Mask, Apron ,hand gloves, gum boots and safety goggles must be provided
14.	Marking of nozzle	Manufacture Name/Trade name, Batch or Code number, Nozzle designation must be provided. As per BIS
15.	Spray lance construction	Should be seamless
16.	Making/labeling of sprayer	The labeling plate should be provided on the body of sprayer having name & address of manufacturer, month & year of manufacture rated pressure, discharge rate, country or origin.
17.	Literature	Operator manual, service manual & parts catalogue should be provided

21. Tractor Operated Boom Sprayer

SI.No.	Parameters	Specification
1.	Tank capacity	Should not be less than 100 Lit.
2.	Provisin for folding of boom	Must be provided
3.	Pressure regulator	Must be provided
4.	Pressure gauge with pressure dampener	Liquid Filled Pressure gauge must be provided
5.	Discharge rate ,ml/min	Min 8000, at rated speed and rated pressure
6.	Strainer at filling hole	Must be provided
7.	Spray gun designation and marking	Designation,manufacturers name or recognised trade mark & batch or code number should be marked
8.	Length of spray boom, m	6 (Min.)
9.	Nozzle designation and marking	Designation,manufacturers name or recognised trade mark & batch or code number should be marked
10.	P.T.O. drive shaft - Safety against overload - Guard on shaft	mustbe provided must be provided
11.	Guard on belt pulley drive	mustbe provided
12.	Safety wear	Mask, hand gloves, gum boots and goggles, Aprons must be provided
13.	Labeling plate of sprayer	Metallic labeling plate should be riveted with following information Manufactures name, make,model serial number, month & year of manufacture, rated speed, rated pressure and recommended tractor horse power
14.	Literature	Operator manual, service manual & parts catalogue should be provided

22. Dal Mill

SI.No.	Parameters	Specifications
1.	Capacity, kg/hr	100 (Min.)
2.	Input	Preconditioned whole raw pulses
3.	Output	Dehusked pulses, split pulses, broken & husk
4.	Grades	To separate whole dehusked pulses, split & broken.
5.	Husk separation	Husk separation through aspirator assembly
6,	Oil can	Oil can provided for oil treatment during dal processing.
7,	Cautionary notice	Must be provided
В.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, required size of prime mover (kW)
9.	Literature	Operator manual, Service manual and Parts catalogue should be provided

23. Rice Mill

Sr.no.	Parameter	Specification
1.	Capacity of mini rice mill, kg of paddy per hour.	750 minimum
2.	Sheet thickness used for construction of various part, mm	0.7 (Min.)
3.	Roller Hardness of polisher, HRC	40 (Min.)
4.	Hopper sheet thickness of polisher , mm	0.5 (Min.)
5.	Cautionary notice	Must be provided
6.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, required size of prime mover (kW)
7.	Literature	Operator manual, Service manual and Parts catalogue should be provided

24. Potato Digger

SI.No.	Parameters	Specifications
1,	Type of digging blade	V type edge/Trapezoidal plate type
2.	Working width blade/plate, mm	50 (Min.)
3.	Thickness of blade/plate (mm)	8 (Min.)
4.	Number of gauge wheels	2
5.	Total Length of elevator/conveyor chain (mm)	1500 to 2550 (Single conveyor) 1405 + 1130 (Double conveyor)
6.	diameter of rod for conveyor chain, mm	10 (Min.)
	Material	MS C45
7.	Spacing between conveyor rods (mm)	25 (Min.)
8.	Angle of inclination of elevator with horizontal (deg.)	18 to 20° (Adjustable)
9.	Provision of safety clutch/ device (shear bolt) in PTO drive shaft	Must be Provided
10.	Guard over propeller shaft	Must be Provided
11.	Provision of guards over transmission for safety	Must be Provided
12.	Provision for transportation	Must be Provided
13.	Provision for varying depth of cut	Must be Provided
14.	Marking/labeling of machine	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover kW/hp
15.	Literature	Operator manual, Service manual and Parts catalogue should be provided

25. Hay Rake

SI. No.	Parameters	Specifications
1.	Туре	Tractor operated Wheel rake/ rotary rake / Side delivery rake
2.	Working width, m	1.0 (min.)
3.	Hitching system	Three point linkage/draw bar hook
4.	Swathing mechanism	Rake wheels/ Tyne arm
5.	Dia. of tines (mm)	6 Min.
6.	Marking/labeling	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover kW/hp
7.	Literature	Operator manual, service manual & parts catalogue should be provided

26. Multi-crop Thresher

SI.No.	Parameters	Specifications
1.	Туре	Tractor/Power tiller/Engine/Electric motor operated
2.	Type of crop feeding	Chute-fed,/ conveyor -fed / feed roller-fed / hopper-fed
3.	Type of threshing drum/cylinder	Hammer mill / Rasp bar/ Spike tooth/ Syndicator
4.	Suitability of crop	Cereals / Paddy / Soybean / Ground nut, etc. / Multi-crop (Min 2 crops)
5.	Total length of feeding chute and covered portion (mm)	900 (min) and 450 (min)
6.	Material and thickness of feeding chute/hopper (mm)	MS sheet 1.6 (min)
7.	Number of hammers/ beaters/ rasp bars/ spikes/ chopping knives	Depending on the size of drum
8.	Number of sieves	2(min)
9.	Dimension of sieves / size of apertures or holes, mm	Thickness of sieve 1.0 (min)
10.	Number of blower/aspirator	1(min)
11.	Concave clearance (mm):	15 (min) adjustable
12.	Recommended threshing cylinder speed (rpm)	To be declared by the manufacturer
13.	Recommended blower speed (rpm)	To be declared by the manufacturer
14.	Provision of adjusting concave clearance	Must be Provided
15.	Provision of changing cylinder/drum speed	Must be Provided
16.	Provision of changing blower speed	Must be Provided
17.	Provision of changing air-flow rate	Must be Provided
18.	Provision of changing shaker unit speed	Must be Provided

19.	Provision of changing sieve inclination	Must be Provided
20.	Provision of easy replacement of sieves	Must be Provided
21.	Guards against all moving parts/drives	Must be Provided
22.	Guard over propeller shaft (if applicable)	Must be Provided
23.	Protection against entry of dust in bearings	Must be Provided
24.	Provision of stand for storage/parking	Must be Provided
25.	Provision for transportation of thresher	Must be Provided
26.	Provision of label/plate containing cautionary notices in vernacular languages and their pictorial representation as per Indian Standard	Must be Provided
27.	Recommended speed of threshing cylinder (rpm)	Must be provided
28.	Direction of rotation of threshing cylinder	Clockwise/anti-clockwise
29.	Marking/labeling	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover kW/hp
30.	Literature	Operator manual, Service manual and Parts catalogue should be provided

27. BRUSH CUTTER

SI.No	Parameters	Specification
1.	Туре	Self-propelled, portable
2.	Type of cutting attachment	Circular disc/Straight blade/nylon rope
	Circula	ar blade
3,	Material of circular/straight blade	Alloy steel
4.	No. of teeth on circular disc blade	50-100
5.	Root diameter/ Overall diameter (mm)	200-270
6.	Thickness of disc (mm)	1.5 Min,
7.	Teeth thickness (mm)	2.0 Min.
8.	Material of Blade	M42
9.	Hardness of Blade, HRC	68-70
	Straigh	Constitution of the consti
10.	Diameter of straight blade (mm)	250-350
11.	Width at ends/at center (mm)	50/70, Min.
12.	Thickness of straight blade (mm)	1.5 Min.
	Nylon	
13.	Length of nylon rope (mm)	2000-4000
	Diameter of nylon rope (mm)	2.5 to 4.0
	Type of engine	200 Lightly 2001C
	Starting method	Compression ignition/Spark ignition Manual/recoil/self-starting
	Type of clutch	Cone/centrifugal
	Type of gear drive	Bevel pinion
	Capacity of fuel tank (I)	
	On off provision in fuel supply system	1.0(Min.) Must be provided
	Provision for easy start of engine	Must be provided
	Provision for emergency stop of engine	Must be provided
300	Provision for shield/cover to prevent	Must be provided
fl	ying of mud & stone from rotor	
	rovision for Grass deflector at the rear f the cutting mechanism	Must be provided

25.	Provision for Pad with shoulder belt to dampen the vibration	Must be provided
26.	Provision for cover on exhaust.	Must be provided
27.	Direction of exhaust emission away from operator	Must be provided
28.	Provision for safety kit (helmet, ear plug, mask, hand gloves, safety glass, Protective cloth, safety shoes)	Must be provided
29.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer & Applicant, Country of origin, Make, Model, Year of manufacturer, Serial number, Engine number, Engine HP, rated rpm & SFC.
30.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

28. SELF PROPELLED WEEDER

SI.No.	Parameters	Specifications
1.	Туре	Self-propelled, walk behind
2.	Working width (mm)	300 – 1500
3.	Type of engine	Compression ignition/Spark ignition
4.	Starting method	Manual/recoil/self-starting
5.	Type of clutch	Dry/Wet
6.	Type of primary gear box	Sliding/constant mesh or combination of both
7.	Type of secondary gear box	Gear type
8.	Material for rotor shaft	SAE 1045 (CRS) / EN8 / EN9
9.	No. of flanges	4 - 10
10.	Type of flanges	Square/circular/rectangular
11.	Distance between consecutive flanges(mm)	80 to 150
12.	No. of blades in each flange	3- 6
13.	No. of rotor blade	12 (Min.)
14.	Thickness of rotor blade (mm)	5 (Min.)
15.	Material of blade	Boron (28MnCrB5) / High Carbon Steel EN 42j
16.	Hardness of Blade, HRC	38 (Min.)
17.	Shape of rotor blade	C /J shape
18.	Provision for handle height adjustment	Must be provided
19.	Provision for handle rotation	Must be provided
20.	Provision for emergency stop of engine	Must be provided
21.	Provision for easy start of engine	Must be provided
22.	Provision for shield/cover to prevent flying of mud & stone from rotor	Must be provided
23.	Depth control mechanism	Must be provided
24.	Provision for transport wheels	Must be provided
25.	Provision for cover on exhaust.	Must be provided
26.	Direction of exhaust emission away from operator	Must be provided

27.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer & Applicant, Country of origin, Make, Model, Year of manufacturer, Serial number, Engine number, Engine HP, rated rpm & SFC.
28.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

29. PNEUMATIC PLANTER

SI.No	Parameters	Specifications
1.	Size	No. of furrow openers × spacing between adjacent furrow openers
2.	Type of furrow opener	Runner /Disc type
3.	Number of furrow openers (for seed and fertilizer each)	2-6
4.	Row spacing (mm)	300 (Min.)
5.	Type of seed metering mechanism	Vacuum seed metering mechanism
6.	Seed/fertilizer hopper sheet thickness, mm	MS 1.0 (Min.) GI 0.63 (Min.) (IS: 6813) FRP 2.5 (Min.)
7.	Thickness of seed/fertilizer tubes	Transparent plastic tubes with 2.5 mm (Min.)
8.	Material of furrow opener	Boron steel 28 MnCrB 5. High Carbon Steel EN42 j and above
9.	Hardness of furrow openers, HRC	38 (min)
10.	Guard over propeller shaft	Must be Provided
11.	Provision for adjusting the row spacing	Must be Provided
12.	Provision for adjusting depth of seed/fertilizer	Must be Provided
13.	Provision for adjusting the seed/fertilizer rate	Must be Provided
14.	Provision of covering device / press wheel	Must be Provided
15.	Provision of row marker	Must be Provided
16.	Provision of metallic calibration plate/ Calibration Chart	Must be Provided
17.	Marking/labeling	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover kW/hp
18.	Literature	Operator manual, Service manual and Parts catalogue should be provided

30. RICE TRANSPLANTER

SI.No.	Parameters	Final Specifications
1,	Type of machine	Manually operated walk behind/ self- propelled walk behind/ self-propelled ride-or type
2.	Working width (mm)	880 (Min)
3.	Type of planting mechanism	Finger type for mat type nursery/ cup type for seedling cups
4.	Number of rows	4,6,8
5.	Row spacing (mm)	220 to 300 (Adjustable)
6.	Average hill spacing (mm)	120 to 250 (Adjustable)
7.	Type and number of floats	Wooden plank/metallic sheet/PVC sheet/hollow plastic.
8.	Angle of mat sliding board, (degrees)	45 to 70 (Adjustable)
9.	Material of planting fork/fingers/tweezers	Stain steel type 4 and above
10.	Provision for adjusting the row spacing	Must be provided
11.	Provision for adjusting depth of planting	Must be provided
12.	Provision for adjusting hill spacing	Must be provided
13.	Provision for adjusting no of plants per hill	Must be provided
14.	Provision for area recorder	Must be provided
15.	Marking/labeling	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover kW/hp
16.	Literature	Operator manual, Service manual and Parts catalogue should be provided

31. FORAGE HARVESTER (Single row)

SI.No.	Parameters	Specifications
1.	Туре	Tractor mounted, PTO Powered / Pull type
2.	Power source	Tractor of 45 HP and above
3.	No. of rows	1 to 5
4.	Working width (mm)	600
5.	Material of main frame	Mild steel
6.	Type of gear box	Gear/chain & sprocket
7.	Type of secondary gear box	Gear/chain & sprocket
8.	Provision of oil level checking, breather cap & drain plug in primary & secondary gear box	Must be provided
9.	Feeding system	Conveyor/feed roller
10.	Number & type of roller	Min. 02, Plain/Serrated
11.	Provision of safety & reversing in feeding system	Must be provided
12.	Chopping mechanism	Fly wheel with blade/ palate bars
13.	Speed of flywheel/blade@ 540 tractor PTO (rpm)	1000 (Min.)
14.	Chopping knife/Disc	M42
15.	Hardness of material, HRC	68
16.	Thickness of blade (mm)	5 (Min.)
17,	Blade sharpening Grinding wheel	Must be provided
18.	Safety provision in propeller shaft	Must be provided
19.	Guard/cover on all moving parts	Must be provided
20.	Provision for adjustments of air flow rate & discharge outlet positions	Must be provided
21.	Provision for lubrication	Must be provided
22.	All related cautionary notices written in vernacular language and their pictorial representation.	Must be provided

23.	Marking/labeling	The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, size, required size of prime mover kW/hp.
24.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

32. FORAGE HARVESTER (Multi row)

SI.No.	Parameters	Specification	
1.	Туре	Tractor mounted, PTO Powered / trailed type	
2.	No. of rows	1 to 5	
3.	Working width (mm)	600 to 2200	
4.	Material of main frame	Mild steel	
5.	Type of gear box	Gear/chain & sprocket	
6.	Type of secondary gear box	Gear/chain & sprocket	
7.	Provision of oil level checking, breather cap & drain plug in primary & secondary gear box	Must be provided	
8.	Feeding system	Conveyor/feed roller	
9.	Number & type of roller	2 (Min.) and Plain/Serrated	
10.	Provision of safety & reversing in feeding system	Must be provided	
11.	Chopping mechanism	Fly wheel with blade/ palate bars	
12.	Chopping knife/Disc	Carbon Steel EN 45 equivalent to SAE 10 grade and Boron Steel EN 10083 (30 lbs)	
13.	Thickness of blade (mm)	5 (Min.)	
14.	Blade sharpening Grinding wheel	Must be provided	
15.	Safety provision in propeller shaft	Must be provided	
16.	Guard/cover on all moving parts	Must be provided	
17.	Provision for adjustments of air flow rate & discharge outlet positions	Must be provided	
18.	Provision for lubrication	Must be provided	
19.			
20.	Marking/labeling The labeling plate should be riveted body of machine having name & ad manufacturer, country of origin, model, year of manufacture, serial size, required size of prime mover kl		
21.	Literature	Operator manual, Service manual and Parts catalogue should be provided.	

33.Chaff Cutter

SI.No.	Parameters	Specifications
1.	Туре	Power operated
2.	Basis of cutting mechanism Type	Flywheel or Cylinder
3.	Basis of cut chaff dropping position Type	Let fall, throw away or blow
4.	Material of blade	Mn 42
5.	Hardness of Blade, HRC	48-52
6.	Length of conveyor, mm	1200 (Min.)
7.	Length of chute, mm	900 (Min.)
8.	Thickness of chute sheet, mm	≥1.6
9.	Covering of chute or conveyor, mm	450 minimum
10.	Height of feeding unit, mm	750 to 1100
11.	Cautionary notice	Must be provided
12.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, required size of prime mover (kW)
13.	Literature	Operator manual, Service manual and Parts catalogue should be provided

34.Sub Soiler

SI.No.	Parameters	Specifications
1.	Туре	Tractor mounted
2.	Power source	Tractor of 35 HP and above
3.	Hitch type	Three point, CAT-I/CAT-II
4.	Material of main frame	Mild steel
5.	Beveled length at cutting edge of share (mm)	10.0 (Max.)
6.	Thickness of cutting edge (mm)	0.5 to 2.0
7.	Reversibility of share	Must be provided
8.	Material of share	Boron Steel 30 MnCr B5
9.	Provision to change the angle of share	Must be provided
10.	Provision for parking stand	Must be provided
11.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number Recommended tractor hp
12.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

35. TRACTOR OPERATED POWER WEEDER

SI.No.	Parameters	Specifications
1.	Туре	Tractor mounted, PTO Powered
2.	Working width (mm)	1500 (min.)
3.	Type of blades	Hatchet/Straight/Curved/L type
4.	Material of Blade	Boron steel 28 MnCrB5/ High Carbon steel EN42j
5.	Hardness of material, HRC	38 (min)
6.	Type of primary transmission	Gear
7.	Type of secondary transmission	Gear/chain & sprocket
8.	Material for rotor shaft	SAE 1045 (CRS) / EN8/EN9
9.	No. of flanges per row	2 (Min.)
10.	Type of flanges	Square/circular/rectangular
11.	No. of blades in each flange	4 (Min.)
12.	No. of rotor blade	8 (Min.)
13.	Thickness of rotor blade (mm)	5 (Min.)
14.	Material of blade	Boron Steel 28 MnCrB5 EN42j
15.	Hardness of blade, HRC	38 (min)
16.	Provision for shield/cover to prevent flying of mud & stone from rotor	Must be Provided
17.	Depth control mechanism	Must be Provided
18.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, required size of prime mover (kW)
19.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

36. TRACTOR OPERATED REAPER-CUM-BINDER

SI.No.	Parameters	Specifications
	Reaping	Unit:
1.	Effective width of cutter bar (mm)	1200
2.	Type of crop dividers	Shoe
	Number of crop dividers	Two
3.	Type of knife section	Serrated
4.	Number of knife sections on cutter bar	As per design
5.	Length of ledger plate (mm)	As per design
6.	Type of crop conveyor	Chain type/belt type
7.	Material of knife section	High carbon steel EN42 J and above
8.	Material of ledger plate	High carbon steel EN44 and above
9.	Hardness of knife section ,HRC	38 (min)
10.	Hardness of ledger plate, HRC	45 (Min)
	Crop collec	ting Unit
11.	Туре	Forks with fingers
12.	No. of forks	6
	Crop binding	mechanism
13.	Туре	Knotting
14.	Type of ropes	Nylon/Jute/ PP Rope
15.	Provision of leveling the cutter bar	Must be provided
16.	Provision of changing the crop bundle size	Must be provided
17.	Guards against all moving parts/drives and hot parts	Must be provided
18.	Slip clutch/safety pins at cutter bar drive	Must be provided
19.	Slip clutch/safety pins at conveyor drive	Must be provided

21.	Provision of safety clutch/ device (shear bolt) in PTO drive shaft	Must be provided
22.	Provision of stand for storage/parking	Must be provided
23.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make, Model, Year of manufacture, Serial number, Type, required size of prime mover (kW)
24.	Literature	Operator manual, Service manual and Parts catalogue should be provided

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37. POWER HARROW

SI.No.	Parameters	Specification
1.	Туре	Tractor mounted, PTO Powered
2.	Working width (mm)	750 (Min.)
3.	Main frame	Rectangular MS box
4.	Thickness of sheet of box (mm)	5 (Min.)
5.	Thickness of side support sheet (mm)	8.0 (Min.)
6.	Provision for adjustment of height in trailing board	Must be provided
7.	type of blade	Long aggressive and drag type
	Number of blades	10 (Min.)
8.	Number of flanges	3 (Min.)
9.	Number of blade per flange	2 (Min.)
10.	Thickness of blade ,mm	12±0.5 (Min.)
	Length of blade ,mm	280±5
11.	RPM of rotor shaft @ 540 PTO rpm	325±5 (Max.)
12.	Primary reduction	Multispeed Gear box for 540 & 1000 RPM
13.	Secondary reduction	Gear
14.	Provision of oil level checking, breather cap & drain plug in primary & secondary gear box	Must be provided
15.	Provision for stand	Must be provided
16.	Safety provision in propeller shaft	Must be provided
17.	Provision for depth control mechanism	Must be provided
18.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make Model, Year of manufacturer, Serial number Type, size, required size of prime move (kW)
19.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

38. SELF PROPELLED REAPER

SI.No.	Parameters	Specifications
1.	Type of machine	Walk-behind type
2.	Effective width of cutter bar (mm)	1100 (Min.)
3.	Number of crop dividers	5(Min.)
4.	Type of knife section	Serrated
5.	Number of knife sections on cutter bar	24 (Min.)
6.	Type of crop conveyor	Chain/Belt
7.	Numbers and type of wheel equipment	Two/Pneumatic or Iron
8.	Type of prime mover	Diesel/Petro/Kerosene/Petrol start kerosene run IC engines.
9.	Minimum power of prime mover (kW)	2.0 to 4.5
10.	Material of knife section	High Carbon steel EN42 J or above
11.	Material of knife back	High Carbon steel EN42 J or above
12.	Material of ledger plate	High Carbon steel EN44 above
13.	Hardness of knife section HRC	38(Min)
14.	Hardness of ledger plate	45 (Min.)
15.	Provision for adjusting the height of cutter bar	Must be provided
16.	Guards against all moving parts/drives and hot parts	Must be provided
17.	Spark arrester in engine exhaust	Must be provided
18.	Location and direction of exhaust emission to be away from the operator and machine for satisfactory operation	Must be provided
19.	Slip clutch/safety pins at cutter bar drive	Must be provided
20.	Slip clutch/safety pins at conveyor drive	Must be provided
21.	Provision of row marker/ crop guide	Must be provided

22.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, Size of prime mover (kW)
23.	Literature	Operator manual, Service manual and Parts catalogue should be provided

39. Tractor Operated HTP Sprayer

Sr. No.	Parameter	Specification
1.	Tank capacity, I	100 (Min.)
2.	Pressure regulator	Must be provided
3.	Pressure gauge with pressure dampener	Full scale reading of pressure gauge should not be more than 2.5 times and not less than 1.5 times the rated pressure.
4.	Discharge rate, ml/min	Min. 8000 at rated speed and rated pressure
5.	Strainer at filling hole	Must be provided
6.	Hose length (m)	100 (Min.)
7.	Provision of hose reel	Must be Provided
8.	Spray gun designation and marking	Designation,manufacturers name of recognised trade mark & batch or code number should be marked
9.	Length of spray gun	Shouldnot be less than 500 mm
10.	Nozzle designation and marking	Designation,manufacturers name of recognised trade mark & batch or code number should be marked
	Nozzle Material	Brass /nylon /hardened /Stainless Stee tungsten Carbide, ceramic
11.	Mass of spray gun	Must be less than 1.6 Kg
12.	Provision of drain plug in the tank	Must be Provided
13.	Safety against overload P.T.O. drive shaft and Guard on shaft	Must be provided
14.	Guard on belt pulley drive	Must be Provided
15.	Safety wear	Mask, Apron , hand gloves, Gum boots an goggles must be provided,
16.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make Model, Year of manufacturer, Serial number Type, size, required size of prime move (kW)
17.	Literature	Operator manual, service manual & part catalogue must be provided in English Hindi, Local languages.

40. Power Maize Dehuskar Cum Sheller

SI.No.	Parameters	Specifications
1.	Туре	Tractor / Power tiller / Engine / Electric motor operated
2.	Type of crop feeding	Chute-fed / conveyor-fed / feed roller-fed/ hopper-fed
3.	Angle of mounting of feeding chute, degree(°)	10-15
4.	Total length of feeding chute ,mm	900 (min)
	covered portion of feeding chute (mm)	450 (min)
5.	Material of feeding chute/hopper	MS sheet
	Thickness of feeding chute/hopper (mm)	1.6 (Min.)
6.	concave clearance, mm	20-35
7.	Feed Rate, kg/hr	400-800
8.	Number of screens	2 (Min.)
9.	Aspirator:	1 (Min.)
10.	Recommended threshing/shelling cylinder speed m/sec	6.2 to 7.6
11.	Provision of adjusting concave clearance	Must be Provided
12.	Provision of changing cylinder/drum speed	Must be Provided
13.	Provision of changing blower speed	Must be Provided
14.	Provision of changing air-flow rate	Must be Provided
15.	Provision of changing shaker unit speed	Must be Provided
	Provision of changing screen pitch/inclination	Must be Provided
20. 11.	Provision of easy replacement of screens	Must be Provided

18.	Guards against all moving parts/drives	Must be Provided
19.	Guard over propeller shaft (if applicable)	Must be Provided
20.	Protection against entry of dust in bearings	Must be Provided
21.	Provision of stand for storage/parking	Must be Provided
22.	Provision for transportation of thresher	Must be Provided
23.	Provision of label/plate containing cautionary notices in vernacular languages and their pictorial representation as per Indian Standard	Must be Provided
24.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, required size of prime mover (kW).
25.	Literature	Operator manual, Service manual and Parts catalogue should be provided

41. Tractor Operated Reaper

SI.No.	Parameters	Specification
1.	Туре	Tractor Mounted, PTO powered
2.	Type of mounting	Front/Rear or side mounted
3.	Working width, mm	1100 (Min.)
4.	Type of knife section	As recommended by manufacturer
5.	Type of crop conveyor	Chain/Belt
6.	Material of knife section	High carbon steel EN42J and above
7.	Material of knife ledger	High carbon steel EN44
8.	Hardness of knife section ,HRC	38
9.	Hardness of ledger plate, HRC	45
10.	Provision to adjust cutter bar height ,mm	50 (Min.)
11.	Provision for quick fit attachment with tractor	Must be provided
12.	Provision for windrowing the harvested crop	Must be provided
13.	Guards against all moving parts/drives and hot parts	Must be provided
14.	Slip clutch/Safety pins at cutter bar drive	Must be provided
15.	Provision for row marker/crop guide	Must be provided
16.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make Model, Year of manufacturer, Serial number Type, size, required size of prime moved (kW)
17.	Literature	Operator manual, Service manual and Parts catalogue should be provided

42. SUGARCANE CRUSHER

SI.No.	Parameters	specifications
1.	Туре	Power operated
2.	Crushing capacity, kg/h	1800 to 2270
3.	Material of feeding chute and thickness, mm	Mild steel sheet, 1.6 (Min.)
4.	Size of opening for feeding the canes, mm	60 (Max.) (Adjustable)
5.	Length of feed plate/chute cover at the front, mm	600 (Min.) (Adjustable)
6.	Number of Rollers	3
7.	Length of Roller, mm	216 to 356
8.	Diameter of Roller(mm)	150 to 264
9.	Lubrication for gear box	Oil bath
10.	Provision to change direction of rotation of feed roller	Must be provided
11.	Provision for feed plate(for vertical type crushers) and feed chute (for horizontal type crushers)	Must be provided
12.	Provision of guards on all moving parts	Must be provided
13.	Provision of safety of operator and the animals for animal drawn crushers	Must be provided
14.	Cautionary notice	Must be provided
15.	Marking/labeling of machine	The labelling plate should be riveted on the body of machine having Name and Address of manufacture, Country of origin, Make Model, Year of manufacture, Serial number Type, required size of prime mover (kW),
16.	Literature	Operator manual, Service manual and Part catalogue should be provided in Hind English and regional language

43. Tractor operated Fertilizer Broadcaster

SI.No.	Parameters	Specifications
1.	Hopper capacity, Kg	Min. 200 (180 L Min)
2.	Fertilizer hopper sheet thickness, mm	2 (Min.) Galvanized/powder coated
3.	Feed control mechanism	Proper graduations should be provided
4.	Fertilizer agitator	Must be provided
5.	Fertilizer spreading range (m)	6 (Min.)
6.	Drive safety	Must be provided
7.	Material of construction of Hopper	MS Steel, Galvanized Sheet, Aluminum fiber Glass Reinforced plastic
8.	Anti-corrosive painting of fertilizer hopper	Must be provided
9.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, required size of prime mover (kW)
10.	Literature	Operator manual, Service manual and Parts catalogue should be provided

44. Groundnut Digger cum-Shaker

SI.No.	Parameters	Specifications
1.	Туре	Tractor Mounted, PTO powered
2.	Working width, mm	900 (Min.)
3.	Working tool bar/Digging blade	V shape /Trapezoidal plate type/ Buckhar type blade
4.	Material of blade	Boron Steel 28MnCrB5 High carbon steel EN42 J
5.	Hardness of Blade material, HRC	38 (Min.)
6.	Thickness of blade material, mm	6.0 (Min.)
7.	Provision for blade angle adjustment	Must be provided
8.	Provision for varying depth of cut	Must be provided
9.	Provision to adjust angle of inclination of elevator with the horizontal, degree(°)	10 to 20
10.	Number of gauge wheel	2 (Min.)
11.	Provision for Oil level checking, Breather cap & drain plug in gear box	Must be provided
12.	Provision for tension adjustment in power transmission(Belt pulley & chain sprocket drive)	Must be provided
13.	Material of rattler bars	Mild steel FE 415
1	Thickness of rattler bars, mm	8.0 (Min.)
14.	Spacing between two rattler bars (mm)	50 (Min.)
15.	No. of spikes on each rattler bar	5 (Min.)
16.	Adjustment for rattler bar agitation	Must be provided
17.	No. of windrowing rods	5 (Min.)
1	& size of windrowing rods, mm	Ø10 (Min.)
18.	Guards on power transmission system/ moving parts.	Must be provided
19.	Slip clutch/Safety provision in propeller shaft	Must be provided

20.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, required size of prime mover (kW)
21.	Literature	Operator manual, Service manual and Parts catalogue should be provided.

45. Raised Bed Planter

SI.No.	Parameters	Specifications
- 1.	Row spacing	Adjustable
2.	Type of seed metering mechanism	Fluted roller / Inclined plate feed roller / Cup feed / Cell feed
3.	Type of fertilizer metering mechanism	Fluted roller / Inclined plate feed roller / Cup feed / Cell feed
4.	Bed height ,mm	150 (Min.) (adjustable)
5.	Seed/fertilizer hopper sheet thickness mm	M.S. 1.0 (Min.) G.I 0.63 (Min.)
6.	Thickness of seed/fertilizer tubes	Transparent plastic tubes with 2.5 mm (Min.)
7.	Material of furrow openers	High Carbon Steel - En42 j or above
8.	Hardness of furrow opener HRC	38 to 45
9.	Provision of adjusting depth of seed & fertilizer	Must be provided
10.	Provision of adjusting seed/fertilizer rate	Must be provided
11.	Provision of transparent seed/fertilizer tube	Must be provided
12.	Provision of seed covering device	Must be provided
13.	Provision of metallic calibration plate	Must be provided
14.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make Model, Year of manufacturer, Seria number, Type, size, required size of prime mover (kW)
15.	Literature	Operator manual, Service manual and Parts catalogue should be provided

48. ROUND BALER (Mini)

SI.No	Parameters	Specifications
1.	Power source	Tractor
2.	Working width (mm)	750 (Min.)
	Pick-up U	nit
3.	No. of tyne bars	4 to 5
4.	No. of tynes on each bar	12/14/16/20/22 or 28/30/32
5.	Tyne spacing (mm)	52 to 68
	Bale Uni	t .
6.	Belling mechanism	Roll Bar-Chain/Roller/Roll Belt
7.	No. of bale rollers/No. of tyne bar	19 (Max)
8.	Dia. Of bale rollers (mm)	35 (Min.)
9.	Size of bale rolls	15-35 kg
10.	Speed of bale rollers corresponding to 540 PTO rpm (rpm)	117 to 328
11.	Size of bale, L×D (mm)	Dia 500 (Min) for small bales Length 700 (min)
12.	Bale weight (kg)	14-30
13.	Provision for bale density adjustment	Must be provided
14.	Provision of safety clutch/ device (shear bolt) in PTO drive shaft and pick-up unit	Must be provided
15.	Guard over propeller shaft	Must be provided
16.	Provision of guards over transmission for safety	Must be provided
17.	Provision for safety at feeder unit against overloading	Must be provided
18.	Provision for transportation	Must be provided
19.	-Any other	Shaft and Pin should be of min EN 9 of higher specification
20.	Marking/labelling of machine	The labelling plate should be riveted or the body of machine having Name and

		address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, required size of prime mover (kW)
21.	Literature	Operator manual, Service manual and Parts catalogue should be provided

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49. ROUND BALER (Big)

SI.No	Parameters	Specifications
1.	Working width (mm)	1200 (Min.)
2.	Recommended power source	Tractor
	Pick-up Uni	t
3.	No. of tyne bars	4 to 5
4.	No. of tynes on each bar	12/14/16/20/22 or 28/30/32
5.	Tyne spacing (mm)	52 to 68
	Bale Unit	
6.	Belling mechanism	Roll Bar-chain/Roller/roller
7.	Size of bale, mm	122x125 to 140x160 (for large bales)
8.	Balers weight ,kg	40 (min)
9.	No. of bale rollers	9 (min.)
10.	Provision for bale density adjustment	Must be provided
11.	Provision of safety clutch/ device (shear bolt) in PTO drive shaft and pick-up unit	Must be provided
12.	Guard over propeller shaft	Must be provided
13.	Provision of guards over transmission for safety	Must be provided
14.	Provision for safety at feeder unit against overloading	Must be provided
15.	Provision for transportation	Must be provided
16.	-Any other	Shaft and Pin should be of min EN 9 or higher specification
17.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, required size of prime mover (kW)
18.	Literature	Operator manual, Service manual and Parts catalogue should be provided

50. SQUARE BALER

SI.No	Parameters	Specifications
1.	Recommended power source	Tractor
2.	Working width (mm)	1300-1800
	Pick-up Unit	
3.	No. of tine bars	4 to 5
4.	No. of tines on each bar	20/22/24
5.	Tine spacing (mm)	55 to 135
	Bale Unit	
6.	Size of bale, (mm)	460X360X 300-1400(adjustable)
7.	Provision for bale density adjustment	Must be provided
8.	Provision of safety clutch/ device (shear bolt) in PTO drive shaft and plck-up unit	Must be provided
9.	Guard over propeller shaft	Must be provided
10.	Provision of guards over transmission for safety	Must be provided
11.	Provision for safety at feeder unit against overloading	Must be provided
12.	Provision for transportation	Must be provided
13.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type size, required size of prime move (kW)
14.	Literature	Operator manual, Service manual and Parts catalogue should be provided

51. Nursery Raising Machine for paddy

SI.No.	Parameters	Specifications
1.	Туре	Tray type, Electric motor operated
2.	Power source	AC motor, 1 Φ
3.	Type of machine installation	Permanent/portable
4.	Provision of Energy meter, Voltage & ampere meter in control panel	Must be provided
5.	Protection to protect from high voltage current	Must be provided
6.	Provision of protection from electric shock	Must be provided
7.	Provision for motor speed adjustment	Must be provided
8.	Provision to regulate the Bed & Top soil	Must be provided
9.	Provision to regulate the water for nursery tray	Must be provided
10.	Provision to regulate the sprouted seeds that are delivered into nursery raising tray	Must be provided
11.	Provision for counting of output (no. of tray)	Must be provided
12.	Type of conveyor	Must be provided
13.	Guards on power transmission system & all other moving parts.	Must be provided
14.	Provision for emergency stop of transmission system	Must be provided
15.	Marking/labelling of machine	The labelling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, size, required size of prime mover (kW)
16.	Literature	Operator manual, Service manual and Parts catalogue should be provided