

" स्वच्छ, समृद्ध र समतामूलक उर्लाबारी "



उर्लाबारी नगरपालिका

Urlabari Municipality

नगर कार्यपालिकाको कार्यालय
Office of the Municipal Executive

उर्लाबारी, मोरङ
Urlabari, Morang

कोशी प्रदेश, नेपाल
Koshi Province, Nepal

विषय:- विविध इलेक्ट्रिक तथा अन्य मेशिनरी सामग्रीहरू खरिद गर्ने सम्बन्धी दरभाउपत्र आव्हानको इ-विड

(दोस्रो पटक सूचना प्रकाशित भएको मिति: २०८३/०९/२५)

१. उर्लाबारी नगरपालिका नगरकार्यपालिकाको कार्यालय मोरङ, योग्य शिलबन्दी दरभाउपत्रदाताहरूबाट स्थानिय तथा राष्ट्रिय स्तरको खुल्ला शिलबन्दी दरभाउपत्रको माध्यमबाट विविध इलेक्ट्रिक तथा अन्य मेशिनरी सामग्रीहरू खरिद गर्न यो शिलबन्दी दरभाउपत्र इ-विड सूचना आव्हान गर्दछ ।
२. योग्य शिलबन्दी दरभाउपत्रदाताहरूले यस सम्बन्धी थप जानकारीको लागि वा शिलबन्दी दरभाउपत्र सम्बन्धी कागजातहरू हेर्न (अध्ययन गर्न) चाहेमा यस कार्यालयको निम्न ठेगानमा सम्पर्क राख्न सक्नेछन्- खरिदकर्ता: उर्लाबारी न.पा. कार्यालय मोरङ, मोबाइल न: ९८५२०३०९९९ वा ९८४२०३२७०७ मा सम्पर्क राख्न सकिने छ ।
३. शिलबन्दी दरभाउपत्र सम्बन्धी कागजात यो सूचना राष्ट्रियस्तरको दैनिक पत्रिकामा दोस्रो पटक प्रकाशित भएको मितिले ७ औं दिन सम्ममा कार्यालय समय भित्र रु २०१- को टिकट टाँस गरी तोकिएको राजस्व रकम रु १,०००।-(पछि फिर्ता नहुने गरी) बुझाइ इ-विड सिष्टम मार्फत खरिद गर्न सकिने छ । (रकम जम्मा गर्ने खाता नं. ०६०९७०९९५०५९५९४८)
४. इच्छुक फर्म/कम्पनी/सप्लायर्स वा संघ/संस्थाले शिलबन्दी दरभाउपत्र फाराम खरिद गर्दा आ.व.२०८२/०८३ सम्मको लागि नविकरण गरिएको सम्बन्धित विषयको कारोबार गर्ने इजाजत पत्र वा फर्म दर्ता प्रमाण-पत्र, स्थाई लेखा नं (PAN/VAT), नागरिकताको प्रमाणपत्र, आ.व. २०८१/०८२ सम्मको करचुक्ता गरेको प्रमाणपत्रको प्रतिलिपीहरू मान्यता प्राप्त नोटरी पब्लिकबाट प्रमाणित गराई निवेदन साथ संलग्न राखी प्रोपाइटर स्वयं उपस्थित भइ वा आधिकारीक मन्जुरनामा सहितको प्रतिनिधी पठाई खरिद गर्न सकिने छ ।
५. शिलबन्दी दरभाउपत्र फाराम पेश गर्दा यो सूचना राष्ट्रिय स्तरको दैनिक पत्रिकामा दोस्रो पटक प्रकाशित भएको मितिले ७ औं दिनको ठिक १२.०० बजे भित्र शिलबन्दी खाममा यस कार्यालयलाई सम्बोधन गरी के कामको लागि शिलबन्दी दरभाउपत्र फाराम पेश गर्न लागिएको हो सो कामको विवरण नाम ठेगाना फोन नं समेत खुलाई आधिकारीक व्यक्ति द्वारा शिलबन्दी दरभाउपत्र फाराम यस कार्यालयमा दर्ता गराउन सकिने छ । दर्ता हुन आएको फारामहरूमा कार्यालय प्रमुखको दस्तखत वा यस कार्यालयको छाप लागेको हुनु पर्ने छ ।
६. दर्ता भएका शिलबन्दी दरभाउपत्रहरू फारामहरू ७ औं दिनको ठिक १.०० बजे शिलबन्दी दरभाउपत्रदाता वा निजका प्रतिनिधीहरू र कार्यालयका प्रतिनिधीहरूको रोहबरमा यस कार्यालयमा खोलिने छ । शिलबन्दी दरभाउपत्रदाता वा निजहरूका प्रतिनिधीहरू उपस्थित नभएमा पनि शिलबन्दी दरभाउपत्र फाराम खोल्न बाधा पर्ने छैन ।

प्रमुख प्रशासकीय अधिकृत

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Uralabari, Koshi Province

कोशी प्रदेश, नेपाल
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७. शिलबन्दी दरभाउपत्र फाराम दाखिला गर्ने र खोल्ने अन्तिम दिन सार्वजनिक विदा परेमा उक्त कार्य विदाको लगत्तै पछि कार्यालय खुलेको दिन सोही समयमा हुनेछ ।
८. शिलबन्दी दरभाउपत्रको मान्य अवधीको हकमा दरभाउपत्र खोलिएको दिन देखी गणना हुने गरी क्रमश कम्तिमा ४५ दिन सम्मको लागि मान्य हुने छ।
९. शिलबन्दी दरभाउपत्र पेश गर्दा मुल्य अभिवृद्धि कर सहितको दर पेश गर्नु पर्नेछ ।
१०. शिलबन्दी दरभाउपत्र फाराम दाखिला गर्ने र खोल्ने अन्तिम दिन सार्वजनिक विदा परेमा उक्त कार्य विदाको लगत्तै पछि कार्यालय खुलेको दिन सोही समयमा हुने छ। साथै खरिद/सप्लाय हुने कृषिजन्य सामग्री वा मिल मेशिनरिहरकब स्पेसिफिकेशन कार्यालयको Website अपलोड गरी विस्तृत रुपमा हेर्न सकिने छ ।
११. यस सूचनामा उल्लेख हुन छुट भएका कुराहरु कार्यालयबाट उपलब्ध गराइएको शिलबन्दी दरभाउपत्र कागजात अनुसार र अन्य कुराहरुको हकमा सार्वजनिक खरिद ऐन २०६३ तथा यस नगरपालिका बाट जारी गरिएको सार्वजनिक खरिद नियमावली २०७५ एवं प्रचलित नियमानुसार हुनेछ ।

धरौटी खाता नं. ०६०१७०११५०५९५०२४

कामको विवरण

सि.नं	प्याकेज नं	विवरण खरिद आइटम	इष्टिमेट रकम सहितको (मु.अ.कर जम्मा)	खरिदको माध्यम	फाराम दस्तुर	जमानत रकम	सूचना अवधी
१	०९- ०८२/०८३	विविध इलेक्ट्रिक तथा अन्य मेशिनरी सामाग्रीहरु खरिद	१०,३९,८००।- (अधेरेपी रु. दश लाख उन्चालिस हजार बाठ सय मात्र।	शिलबन्दी दरभाउपत्र	१,०००।-	३१,०००।-	७ दिनको

७/११
प्रमुख प्रशासकीय अधिकृत

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उर्लावारी, मोरङ

Bill of Quantities (BOQ)



[Handwritten signature]
~~नगर कार्यपालिका उर्लावारी~~

S.N	Items	Quantity	Rate (Price/Unit)	Amount	Remarks
1	Maize Sheller	1			
2	Boring motor (2HP)	5			
3	Boring motor (3HP)	1			
4	Irrigation Hose pipe	6			
5	Compact Laser Marking and Seperation Machine	1			
6	Welding Machine	1			
7	Digital Electronic Price Computing Scale (100kg)	1			
8	Digital Electronic Price Computing Scale (200kg)	1			
9	Lithium ion Battery	1			
10	Vacuum pump (HVAC)	1			
11	HVAC kit set	1			
12	Criller	1			
13	Grinder Machine	1			
14	Gas welding set	1			
15	Plastic Mold	300			
16	Planer Machine	1			
17	Jack Machine	6			
18	Normal Sewing Machine	1			
19	Feed Pellet Machine (3HP)	1			
Total					



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Technical Specification of Maize Sheller Machine

S.N	Description	Specification	Remarks
1	Power Source	Electric (AC)	
2	Voltage	Voltage requirement, 200 V	
3	Motor Power	Motor power rating, 1.5 kW	
4	Capacity	300 kg per hour	
5	Cone Material	Food-grade stainless steel	
6	Dimensions	Suitable for portable	
7	Weight	Not less than 20 kg	
8	Control Panel	Equipped with an intuitive control panel	
9	Features	Single Cone Design with hopper Covered with suitable material to upper body Adjustable Separation Speed Easy Loading and Unloading Safety Features Easy Maintenance Portable and Compact	
10	Operational Require	Power Supply Operator Training Maintenance	
11	Optional Accessorie	Additional Separation Screens Mobile Stand	

Note: The major items indicated by bold and highlighted letters/ alphabets/ figures in the technical specifications are Mandatory. Non-compliance of these major items will result in non-responsiveness of the bid.

Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of 2HP Electric Water Pump

S.N	Item Name	Criteria	Required Specification
1	2 HP Centrifugal Pump	General	2HP Electric water pump all complete set suitable for agricultural purpose with efficiency not less than 70%.
		Motor Horse Power	2 HP
		Material	Standard material
		Colour	Standard colour
		Motor Phase	Single phase
		Power Rating	1.5 KW for 2 HP
		Voltage Range	120 - 220 V
		Speed	2840 RPM
		Power Source	Electric
		Head	Minimum 10 m
		Discharge	11 ltr /sec or more
		Weight	Approx. 40 kg (Gross)
		Frequency	200 V, 50 Hz
		Instructions	All signs and instructions in pump shall be in English
		Manuals	One copy of operator manual in English
Tools	A set of tool as required for general maintenance shall be supplied		
Warrenty	Supplier shall provide minimum warrenty valid for one year after date of acceptance		

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Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of 3HP Electric Water Pump

S.N	Item Name	Criteria	Required Specification
1	3 HP Centrifugal Pump	General	3 HP Electric water pump all complete set suitable for agricultural purpose with efficiency not less than 70%.
		Motor Horse Power	3 HP
		Material	Standard material
		Colour	Standard colour
		Motor Phase	Single phase
		Power Rating	2.23 KW for 3 HP
		Voltage Range	170- 240 V
		Speed	2840 RPM
		Power Source	Electric
		Head	10m -15m (Range)
		Discharge	12-19 ltr/sec
		Shaft Sealing	Mechanical Seal
		Frequency	50 Hz
		Instructions	All signs and instructions in pump shall be in English
		Manuals	One copy of operator manual in English
Tools	A set of tool as required for general maintenance shall be supplied		
Warrenty	Supplier shall provide minimum warrenty valid for one year after date of acceptance		

Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

उर्लाबारी नगरपालिका

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Technical Specification of Irrigation Hose Pipe

S.N.	Component Feature	Descriptive Technical Requirement	Remarks
1	Pipe Material	The pipe roll should be a Heavy-Duty PVC Layflat (for portability) or HDPE PE-100 (for durability) of atleast 30m long.	
2	Motor Compatibility	The motor should be a 2HP to 3HP centrifugal or submersible pump; the pipe must handle the corresponding high-volume discharge.	
3	Pressure Rating	The pipe must have a minimum pressure rating of PN 4 to PN 6 (4kgf/cm ² to 6kgf/ cm ²) to prevent bursting under 3HP load.	
4	Dimensions	The internal diameter should be 50mm (2 inch) for 2HP motors and 75mm (3 inch) for 3HP motors to minimize frictional head loss.	
5	Flexibility	For the delivery side, the hose must be "Kink-Resistant" and capable of being rolled/folded for seasonal storage in rural field conditions.	
6	Wall Thickness	The wall thickness should be at least 1.5mm to 2.5mm (for PVC) or SDR 21 (for HDPE) to resist abrasions from rocky soil in hilly or terai regions.	

Er. Balkrishna Chaudhary,
Mechanical Engineer
NEC Reg. No.: 6834

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उर्लावारी, मोरङ



Technical Specification of Compact Laser Marking and Separation Machine

S. No.	Technical Parameter	Required Specification	Remarks
1	Equipment Type	Compact Laser Marking and Separation Machine	
2	Laser Power	Minimum 5W (Fiber or Solid-state Laser)	
3	Working Area	Minimum 174 mm x 87 mm	
4	Positioning System	Automatic Positioning with built-in high-precision sensors	
5	Operating Interface	Built-in HD Touchscreen (Minimum 7-inch)	
6	Control System	Embedded Computing System (No external PC required)	
7	Safety Feature	Visual Work Chamber with filtered/tinted protection glass	
8	Exhaust System	Built-in high-speed cooling fan; Support for external fume extraction	
9	Voltage Compatibility	AC 110V – 230V (Auto-switching or Dual-mode)	
10	Operating Life	Laser source lifespan of >8,000 hours	
11	Software Support	Integrated Cloud-based library for automatic CAD drawing updates	
12	Weight / Portability	Desktop design; Net weight approx. 7 kg to 12 kg	
13	Functions	Back glass separation, bracket removal, and custom engraving	

Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of Welding Machine

S.N	Criteria	Descriptive Technical Requirement
1	Technology	IGBT Inverter Technology for stable arc and high energy efficiency.
2	Input Voltage	Single Phase 220V–240V (~50/60Hz).
3	Output Current	Adjustable range from 10A to 200A (Max output: 200A).
4	Rated Duty Cycle	60% at 200A (Capable of sustained welding at high current).
5	No-Load Voltage	70V to 85V (Ensures quick and easy arc ignition).
6	Electrode Diameter	Supports weldable electrodes from 1.6 mm to 5.0 mm.
7	Display	Built-in LCD Digital Display for precise current monitoring.
8	Safety Functions	Features Anti-stick, Hot Start, and Arc-force for smooth operation.
9	Protection Rating	IP21S (Resistance to vertical water drops and medium-sized debris).
10	Insulation Class	Class H (Capable of withstanding temperatures up to 180°C).
11	Net Weight	Approximately 5.0 kg (Ultra-portable for field use).
12	Input Capacity	Rated input capacity of approximately 8.4 kVA to 8.7 kVA.

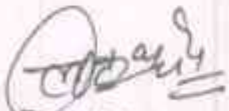
Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of Digital Electronic Price Computing Scale (100kg)

S.N	Criteria	Descriptive Technical Requirement
1	Scale Type	Heavy-duty Platform Scale with integrated Price Computing functionality.
2	Capacity	The machine shall have a maximum weighing capacity of 100 kg .
3	Accuracy (Division)	The scale shall provide a high-precision division (readability) of 10g to 20g .
4	Display System	The indicator shall feature a Triple-Window Digital Screen (Weight, Unit Price, and Total Price) visible to both the operator and customer.
5	Computation Feature	The unit must include an integrated calculator for Automatic Total Price Calculation based on the weight and user-inputted unit price.
6	Memory Function	The machine shall include at least 7 Pre-set Memory Keys (M1-M7) for storing frequently used commodity prices.
7	Platform Construction	The weighing pan shall be made of Corrosion-resistant Stainless Steel (SS) or high-grade Mild Steel with an anti-rust coating.
8	Platform Size	The platform dimensions shall be a minimum of 300 x 400 mm or 400 x 400 mm .
9	Power Supply	Compatible with AC 220V/50Hz and must include a built-in Rechargeable Battery for backup.
10	Battery Life	The internal battery shall provide a minimum of 20 to 30 hours of continuous operation on a single full charge.
11	Keypad	Must feature a Waterproof/Dustproof Membrane Keypad with clear numeric and function keys (Tare, Zero, Clear, Add).
12	Structural Frame	The base frame shall be made of heavy-duty square pipe or die-cast metal to withstand industrial loading.


E. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 5834



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Technical Specification of Digital Electronic Price Computing Scale (200kg)

S.N	Criteria	Descriptive Technical Requirement
1	Scale Type	Heavy-duty Industrial Platform Scale with a separate/integrated digital indicator pole for Price Computing.
2	Max Capacity	The machine shall have a maximum weighing capacity of 200 kg .
3	Accuracy (Division)	The scale shall provide a professional division (readability) of 20g to 50g .
4	Display System	The indicator must feature a Triple-Window LED/LCD Screen (simultaneously showing Weight, Unit Price, and Total Price).
5	Computation Feature	The unit must include an integrated computing processor for Automatic Total Price Calculation based on the item weight and user-inputted unit price.
6	Display Mounting	The digital indicator shall be mounted on a Sturdy Stainless Steel/Metal Pole for clear visibility over high-volume items.
7	Platform Construction	The weighing pan shall be made of Heavy-duty Stainless Steel (SS) or checkered anti-slip Mild Steel plate for industrial durability.
8	Platform Size	The platform dimensions shall be a minimum of 450 x 600 mm or 500 x 500 mm or equivalent.
9	Power Supply	Compatible with AC 220V/50Hz and must include a built-in High-Capacity Rechargeable Battery .
10	Battery Life	The internal battery shall provide a minimum of 40 to 60 hours of backup for continuous operation during power cuts.
11	Overload Protection	The scale must include a mechanical Overload Protection System to prevent sensor damage from accidental excessive weight (up to 150% of capacity).
12	Leveling System	Must be equipped with Adjustable Rubber Feet and a built-in spirit level (bubble) for accurate leveling on uneven floors.

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Technical Specification of Lithium Ion Battery

S.N	Criteria	Descriptive Technical Requirement
1	Battery Chemistry	Lithium Iron Phosphate (LiFePO ₄) for thermal stability and safety.
2	Nominal Voltage	48V to 51.2V (Standard for 15S or 16S configurations).
3	Nominal Capacity	100 Ah (Minimum energy storage of 5.12 kWh).
4	Operating Voltage Range	The operating voltage should be between 42.0V (Cut-off) and 58.4V (Full Charge).
5	Max. Discharge Current	The max current capacity should be 80A to 100A (Peak) to handle uphill loads.
6	Continuous Discharge	Minimum 60A continuous current output for steady driving.
7	Charging Current	Standard: 20A; Maximum: 50A (for fast charging).
8	Cycle Life	Minimum 2,500 to 3,000 cycles at 80% Depth of Discharge (DoD).
9	Protection (BMS)	Integrated Battery Management System with over-charge, over-discharge, and high-temp cut-off.
10	Enclosure Rating	Minimum IP65 or IP67 (Waterproof/Dustproof for Nepal's monsoon conditions).
11	Communication Port	Optional CAN/RS485 for real-time monitoring of cell health.
12	Weight	Approximately 38 kg to 45 kg (Maximum).



Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834



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Technical Specification of Single stage Rotary Vane Vacuum Pump

S.N	Criteria	Descriptive Technical Requirement
1	Pump Design	Single-Stage Rotary Vane vacuum pump with an Integrated Cylinder Structure for higher ultimate vacuum and reliability.
2	Flow Rate (Capacity)	The pumping speed (flow rate) shall be a minimum of 51 Liters per Minute (1.8 to 2.0 CFM).
3	Ultimate Vacuum	The pump must be capable of reaching a partial pressure ultimate vacuum of 2 Pa (approx. 150 Microns) .
4	Motor Power	The electric motor power shall be 1/4 HP (approx. 180W) .
5	Power Supply	Compatible with standard Nepalese voltage: Single Phase 220V-240V / 50Hz .
6	Inlet Port	Standard 1/4" Flare intake fitting (compatible with standard HVAC manifold hoses).
7	Oil Capacity	The oil reservoir capacity shall be approximately 200 ml to 250 ml .
8	Lubrication System	Forced Oil Feed System to ensure consistent lubrication and cooling of the internal vanes during long evacuation cycles.
9	Oil Monitoring	Must feature a large, clear Oil Sight Glass for real-time monitoring of oil level and contamination.
10	Build Material	Lightweight yet durable Aluminum Alloy casing for efficient heat dissipation during operation.
11	Portability	Ergonomic, non-slip Top Handle for ease of transport to various job sites.
12	Exhaust Design	Integrated Oil Mist Filter at the exhaust port to minimize oil vapor discharge.
13	Weight	Total net weight should not exceed 4.5 kg to 5.5 kg to ensure high portability for field technicians.

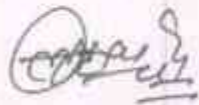
Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of HVAC Set

S.N	Features	Requirements / Technical Specifications	Remarks
1	Set Type	Comprehensive HVAC Installation and Maintenance Tool Kit	
2	Manifold Gauge	Dual-gauge manifold (High & Low pressure) compatible with R32, R410A, R407C, and R134a	
3	Gauge Protection	High-impact rubber-shielded gauges for vibration and shock resistance	
4	Hose Specification	Set of 3 Color-coded charging hoses (Red, Blue, Yellow); Min. length 120cm; Working pressure min. 800 PSI	
5	Flaring Tool	Eccentric Cone type flaring tool for precise 45° flares (Inch standard: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4")	
6	Tube Cutter (Small)	Compact tube cutter for tight spaces; Capacity: 3mm to 19mm (1/8" to 3/4")	
7	Tube Cutter (Large)	Heavy-duty tube cutter with integrated spare blade; Capacity: 4mm to 28mm (1/8" to 1-1/8")	
8	Deburring Tool	Handheld pen-style deburrer with replaceable high-speed steel blade	
9	Vacuum Pump Compatibility	Tools must be fully compatible with standard single and double-stage vacuum pumps (1/4" SAE connection)	
10	Carrying Case	Heavy-duty, high-impact blow-molded plastic case with secure latches and organized compartments	



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Technical Specification of Drilling Machine

S.N	Features	Minimum Requirements / Technical Specifications
1	Tool Type	Heavy Duty Rotary Hammer with SDS Plus Chuck System
2	Operating Voltage	220V – 240V, 50/60Hz
3	Rated Input Power	Minimum 800W
4	No-load Speed	Variable speed within 0 – 1100 rpm
5	Impact Rate	High-frequency impact of 0 – 4000 bpm
6	Impact Energy	Not less than 2.5 Joules
7	Drilling Capacity	Concrete: Min. 26mm
9		Steel: Min. 13mm
11		Wood: Min. 30mm
12	Bit System	Integrated SDS plus chuck system for quick bit changes
13	Operating Modes	Multi-function (Drilling, Hammer Drilling, and Chiseling)
14	Included Accessories	Must include at least 3 drill bits and 2 chisels as standard
15	Ergonomics	Soft grip handle with depth gauge and auxiliary handle

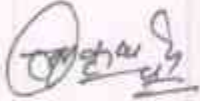
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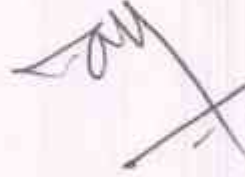
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Technical Specification of Grinding Machine

S.N	Features	Requirements / Technical Specifications	Remarks
1	Tool Type	Industrial Grade Portable Angle Grinder	
2	Operating Voltage	220V – 240V, 50/60Hz	
3	Rated Input Power	Minimum 750W	
4	No-load Speed	High speed of 12,000 rpm	
5	Disc Diameter	100 mm (4 inches)	
6	Spindle Thread	M10	
7	Switch Type	Robust toggle or slide switch (dust-sealed preferred)	
8	Handle	Must include 1 pc Vibration-damping Auxiliary Handle	
9	Safety Features	Adjustable protective wheel guard and spindle lock for easy disc changes	
10	Carbon Brushes	Auto-stop or externally accessible carbon brushes for easy maintenance	



Er. Balkrishna Chaudhary
Mechanical Engineer
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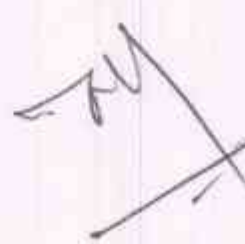
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Technical Specification of Gas Welding Complete set

S.N	Items / Particulars	Technical Requirement
1	Oxygen Cylinder (10L)	Capacity: approx. 10 Litre (Water Capacity)
		Working Pressure: minimum 150 Bar (15 MPa)
		Test Pressure: minimum 250 Bar
		Standard: ISO 9809 / IS 7285 or equivalent
		Material: Standard (Preferred: Manganese Steel / Cr-Mo Steel)
		Valve: Bullnose side-entry (5/8" BSP Right Hand)
2	Domestic LPG Cylinder	Capacity: approx. 14.2 kg
		Source: Nepal Oil Corp (NOC) authorized brands
		Standard: IS 3196 or equivalent
3	Oxygen Regulator	Type: Single-stage, Dual-gauge
		Inlet Pressure: Up to 300 Bar
		Outlet Pressure: 0-10 Bar
		Standard: EN ISO 2503 or equivalent
		Material: Standard (Preferred: Forged brass body with a stainless steel diaphragm)
4	High-Pressure LPG Adaptor	Filter: Sintered bronze inlet filter to prevent particle entry.
		Type: Industrial Screw-on Adaptor (Horizontal/Vertical)
		Pressure Rating: Adjustable 0-4 Bar
		Material: Full Forged Brass
		Safety: Must include a needle valve for flow control. Note: Standard kitchen regulators are strictly forbidden.
5	Flashback Arrestors (Regulator Mount)	Function: 3-in-1 (Non-return valve + Sintered flame arrestor + Thermal cut-off)
		Standard: ISO 5175-1 / EN 730-1 or equivalent
		Inlet/Outlet: 3/8" BSP
		Testing: 100% factory flame-tested.
6	Flashback Arrestors (Torch Mount)	Function: Non-return valve + Sintered flame arrestor
		Size: Compact/Lightweight to ensure torch balance
		Standard: ISO 5175-1 or equivalent
		Connection: 1/4" or 3/8" BSP thread.


Er. Balkrishna Chaudhary,
Mechanical Engineer
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Urbabari Municipality

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Technical Specification of Planer Machine

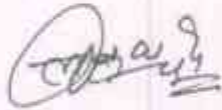
S.N	Features	Minimum Requirements / Technical Specifications
1	Tool Type	Industrial Grade High-Power Electric Wood Planer
2	Operating Voltage	220V – 240V, 50/60Hz
3	Rated Input Power	Minimum 1050W
4	No-load Speed	Minimum 16,000 rpm
5	Planing Width	82 mm
6	Planing Depth	Adjustable, up to 3 mm
7	Base Material	Heavy-duty Aluminum Base for precision and durability
8	Housing Construction	High-grade Aluminum Side Cover for enhanced heat dissipation
9	Cooling System	Integrated Self-cooling belt system for continuous operation
10	Included Accessories	1 pc Drive Belt, 1 set Parallel Guides, 1 pc Depth Guide, and 1 set spare Carbon Brushes
11	Safety & Ergonomics	Lock-on switch for continuous use and ergonomic soft-grip handle

Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of Jack Sewing Machine

S.N	Parameter	Technical Detail	Remarks
1	Model	Jack F6 (Direct Drive Lockstitch)	
2	Application	Light, Medium, and Heavy fabrics (up to 15 layers of denim)	
3	Max Sewing Speed	5,000 Stitches Per Minute (SPM)	
4	Max Stitch Length	5.0 mm	
5	Presser Foot Lift	5 mm (Hand) / 13 mm (Knee/Elbow)	
6	Needle System	DB×1 11 – 18	
7	Motor Type	Integrated Direct-Drive Servo Motor (Power Saving)	
8	Lubrication System	Fully Automatic (Centralized Oil Pan)	
9	Power Supply	220V (Supports wide range: 110V – 220V)	
10	Weight	Net: 30.0 kg / Gross: 36.5 kg	
11	Head Dimensions	645 mm × 248 mm × 550 mm	



Er. Balkrishna Chaudhary
Mechanical Engineer
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Technical Specification of Normal Sewing Machine

S.N.	Component Feature	Descriptive Technical Requirement
1	Machine Head	The machine head must be a heavy-duty cast iron TA1 "Umbrella" type featuring a Full Rotary Shuttle and all-metal gear-drive mechanism for high-speed operation up to 1800 SPM.
2	Motor Type	The motor should be a high-speed, high-torque universal type (typically 150 W to 250 W with 100% pure copper winding to ensure thermal stability during prolonged commercial use.
3	Voltage Requirements	The voltage should be a standard Single Phase 220 V - 240 V AC at 50 Hz, compatible with the local power grid in Nepal.
4	Speed Control	Must include a variable-speed foot controller (accelerator) allowing for precise manual speed regulation from 0 to maximum RPM.
5	Support Stand	The stand must be a heavy-weight cast iron "Z" or "U" type (Loha Stand) to act as a mass damper, reducing structural vibrations at high speeds.
6	Table Surface	The tabletop should be a high-density wood assembly with a laminated sun-mica finish and an integrated measuring scale for smooth fabric movement.
7	Feeding System	Must include a manual stitch regulator (up to 4.2 mm length) and a dedicated reverse-feed lever for seam reinforcement.
8	Integrated Lifter	A mechanical Knee Lifter assembly must be provided to allow hands-free operation of the presser foot during industrial sewing tasks.
9	Transmission	Power transmission from the motor to the machine flywheel must be via a high-friction V-belt with adjustable tensioning.
10	Lubrication	The system must feature an open-access manual oiling design targeting all critical friction pairs, including the needle bar and shuttle race.

Er. Balkrishna Chaudhary
Mechanical Engineer
NEC Reg. No.: 6834

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Technical Specification of Feed Pellet machine

S.N	Features	Minimum Requirements / Specifications	Remarks
1	Machine Type	Flat Die Feed Pellet Machine with integrated electric motor	
2	Productivity	High-efficiency output of ≥ 60 Kg/Hr	
3	Motor Power	3Hp / 2.2Kw	
4	Operating Voltage	220V (Single Phase), 50Hz	
5	Pelletizing Speed	Optimized low-speed operation at 370 RPM	
6	Manufacturing Standard	Must comply with SC/T6011-2001 (or equivalent industrial standard)	
7	Chassis/Mobility	Heavy-duty steel base frame equipped with four (4) transport wheels for mobility	
8	Transmission	Direct-drive or gearbox system suitable for low-RPM/high-torque extrusion	
9	Cooling & Safety	Fan-cooled motor with protective terminal box and emergency stop capability	
10	Finish	Industrial grade anti-corrosive coating (Cyan Blue preferred)	

Er. Balkrishna Chaudhary
Mechanical Engineer
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