

REPUBLIQUE DU CAMEROUN

PAIX - TRAVAIL - PATRIE
SERVICES DU PREMIER MINISTRE

COMITE DE PILOTAGE DU PLAN PRESIDENTIEL DE
RECONSTRUCTION ET DE DEVELOPPEMENT DES REGIONS DU
NORD-OUEST ET DU SUD-OUEST

UNITE DE COORDINATION



REPUBLIC OF CAMEROON

PEACE - WORK - FATHERLAND
PRIME MINISTER'S OFFICE

STEERING COMMITTEE OF THE PRESIDENTIAL PLAN FOR THE
RECONSTRUCTION AND DEVELOPMENT OF THE NORTH-WEST
AND SOUTH-WEST REGIONS

COORDINATION UNIT

**LIST OF EQUIPMENTS NEEDED BY CDC, PAMOL AND UNVDA
FOR THE UPGRADING OF THEIR PRODUCTION SYSTEM**

➤ **Cameroon Development Corporation**

CDC is an agro-industrial corporation created in 1947 as a public institution to acquire, develop and operate extensive plantations of tropical crops. Its plantations cover about 41,000 hectares of land, of which 38,000 hectares were under production before the crisis. It has more than 22,000 workers, including casual workers, making it the second largest employer in Cameroon after the State. Its main products are bananas, semi-finished rubber, palm oil and palm kernel oil. Its assets include 11 rubber plantations, 7 oil palm plantations, 5 rubber factories and 3 palm oil factories. These plantations and production plants are spread over several divisions of the South-West Region.

Due to the security crisis, production has fallen from 2016 to 2019. Since 2020, there is a reversal of the trend with an increase in palm oil production, banana, raw rubber, etc.

To accelerate the new trend, below are the needs of CDC:

S/N	DESCRIPTION	QUANTITY			Total Qty
		TSD	GROUP BANANA	GROUP RUBBER	
1	Bulldozer	2	1		3
2	Motor Grader	2	1		3
3	Wheel (Front end) Loader	3		3	9
4	Hydraulic excavator	2			2
5	Compactor	1			1
6	Modern Low Loader trailer	1			1
7	Water tank truck	1			1
8	10 Tons Crane Tipper	1			1
9	Heavy Duty Industrial Hammer	1			1
10	Autonomous (mobile welding plant)	2			2
11	Agricultural Tractors 4WD			22	40
12	12 Ton Agricultural Trailer			12	22
13	6 Ton Agricultural Trailer			10	17
14	10 Ton Dump Truck (Tippers)	1		22	40
15	Personnel Carriers			10	10
16	Forklift Trucks			3	6
17	Generator Set	1		12	13

NB: These are the technical specification and characteristics for each equipment above-mentioned.

1) BULLDOZER (CAT D8G)

- Engine power 228kw - 250kw
- Type of engine Water Cooled diesel
- Engine
- Weight 35.000kg to 40.000kg
- Multi shank ripper length
- Length 4.7m
- Ground clearance 555mm

2) MOTOR GRADER

- Engine power 170kkw
- Type of engine Water Cooled Diesel Engine

3) WHEEL LOADER (FRONT END LOADER)

- Engine power 165KW
- Operating Weight 1800kg
- Type of engine Water Cooled Diesel Engine
- Overall length 8000mm
- Axle to pivot pin 1630mm
- Wheel base 3300mm
- Minimum ground clearance 480mm
- Wheel track 2000mm
- High over cab 3380mm
- Shovel capacity 300m²

4) EXCAVATOR

- (Hydraulic Excavator)
- Engine power 125kw
- Type of engine Diesel Engine – Water Cooling
- Overall of engine length 9.5m
- Minimum ground 7.0m

Main pump

- Type variable displacement tandem usual piston
- Maximum pressure 40kg/cm² (4550ps)
- Plot pump
- Type: fixed displacement gear pump single stage.
- Maximum pressure 40kg /cm²
- Control valve Hydraulic Plot Assist
- Swimming motor: low fixed displacement axial piston motor

5) COMPACTOR

- Engine power 130kw
- Type of engine water cooled diesel engine
- Operating weight 19000kg
- Vibrating wheel diameter 1600mm
- Vibrating wheel shell. Thickness 40mm
- Slatic pressure 560N/mm
- Vibrating frequency 29(igh)H/35(Low)

- **SPEED LANGE**

Speed 1	0-6.5km/h
Speed 2	0-8.6km/h
Speed 3	0- 10.2km/h
Speed 4	0- 12.5km/h

Wheel Base	3140mm
Overall length	6080mm
Overall width	2350mm
Overall height	3180mm

6) MODERN LOW LOADER. TRAILER

Model:	2 Axles
Material:	higher strength steel plate
Bogie:	load 25T
Length	19m

7) WATER TANKER TRUCK

Superstructure:	Tank capacity 8.000 liters
Tank material:	carbon steel

8) 10 TON HYDRAULIC MOBILE CRANE TIPPER TRUCK

Maximum lighting capacity:	10.000kg
Minimum lifting moment:	10 Ton x 25m
Hydraulic system flow:	L/min 63

9) DEMOLITION JACK HAMMER CONCRETE BREAKER

- Power Rating 2,200 Watts

10) AUTONOMOUS (Mobile Welding Plant)

- Welding Current 650Amps
- Engine 65 Horse power, 4 Cylinders
- Two Electrical outlets 220Volts and 380Volts

11) AGRICULTURAL TRACTOR 4WD

- Engine 80-90 HP
- Number of cylinder 4 in line.
- Transmission multi-speed gear box with forward and reverse gear
- Engine mark Perkins, cummins turbo diesel

12) 12 Tons AGRICULTURAL TRAILLER

- Capacity 12--Ton
- Size 11 x 605 x 2.25
- Axle size 4 - ½
- Frame channel size 7 x 3
- Tyre size 11.00 – 12.00/20
- No of tyre 4

13)6 Tons AGRICULTURAL TRAILLER

- Capacity 6--Ton
- Size 11 x 605 x 2.25
- Axle size 4 - ½
- Frame channel size 7 x 3
- Tyre size 11.00 – 12.00/20
- No of tyre 2

14)12 TONS DUMP TRUCK

- Engine power 130HP/180HP
- Overall dimension 7000 x 2500 x 3500mm
- Transmission WLY653H
- Fuel Tank 300L

15)PERSONNEL CARRIER

- 10 Ton Truck
- Engine type 6 cylinder 4 stroke
- Water cool turbo charged are intercooled direct injection
- HP (266HP)
- Fuel tank capacity 400
- Gear 09
- Carrying capacity: 80 persons

16)FORKLIFT TRUCK

- Engine: diesel engine
- Power HP (KW) 70 KW
- Wheel drive 02
- Maximum capacity 5000 Kg
- Maximum mast height

17)GENERATOR SET

- Power Rating: 100 KVA (80KWatts)
- Engine : Diesel
- Output : 3 – Phase, 4 Wire
380/220 Volts
50Hertz at 1500 RPM

TECHNICAL SPECIFICATION FOR A DISC PLOUGH WITH 3 DISCS, FERTILIZER APPLICATOR, MAIZE PLANTER POWERED BY HYDRAULIC SYSTEM AND PTO, HARROW, 50TON MINI MAIZE DRYER, MAIZE HARVESTER, MAIZE THRESHER AND TRACTOR WITH 4 WHEEL DRIVE.

1) DISC PLOUGH WITH 3 DISCS

DESCRIPTION	SPECIFICATION
• Overall length	254cmm
• Overall width	1180mm
• Overall height	1240mm
• Width of cut	8/5 -925mm
• Working depth	200-250mm
• No of discs	03
• Disc blade size	660mm
• Under beam clearance	760mm
• Power required	55 – 65HP
• Operator speed	5 – 6.5kmph

2) FERTILIZER APPLICATOR

DESCRIPTION	SPECIFICATION
• Weight of the machine (without canycom)	187kg
• Weight of the machine with the canycom	1,300kg
• Length x width x height	(291 x 112 x 238) cm
• Hopper capacity	475 (520)kg
• Prime mover	canycom size 160
• Engine type	20.5 HP Diesels engine
• Hydraulic motor for rotary tiller and spinner	

3) POWER TILLER OPERATED (PTO) MAIZE PLANTER

DESCRIPTION	SPECIFICATION
• Type	riding type with seating arrangement
• Materials	stainless steel and plastic
• Power source	power tiller with 18hp and above
• Body size	rectangular frame
• Number of sowing lines	2 lines adjustable rows
• Seed meter device	Vertical plate/disc of scoop wheel/spoon discs / picker finger
• Seed box volume	10-20kg
• Fertilizer	fluted rover/sliding onifice
• Fertilizer box volume	30-40kg
• Seeding depth	Adjustable and 4-10cm seeding depth
• Planting distance	15-31cm adjustable
• Row spacing	30-60cm adjustable
• Number of operating gears	at least 6
• Ground wheel	2 ground wheels just at rear end
• Body weight	65kg and above

4) HARROW

DESCRIPTION	SPECIFICATION
• Frame	65mm x 65mm x 6mm
• Harrow type	Disc harrow
• Type of disc	Plane
• Disc diameter	540mm
• Number of discs	12
• Working depth	150mm
• Weight	350kg
• Tractor power capacity	35HP or above
• Overall dimension	
Length	1750cm
Width	1250mm
Height	1200mm
• Bearing hubs	4 in number

5) MAIZE PLANTER POWERED BY HYDRAULIC SYSTEM

DESCRIPTION	SPECIFICATION
• Number of rows	Adjustable 3 rows
• Material	Stainless steel and plastics
• Hitching	3 point linkage
• Height of seed meter from the ground	Not more than 50cm
• Types of seed metering device	Vertical plate/disc of scoop, scoop wheel/spoon disc/picker finger with 1-6 gears
• Power transmission	Chain drive, sprocket, bearing
• Working width	(1650-2100)mm
• Working depth	(50-100)mm
• Planting distance	(200-250)mm

6) 50 TONS MINI MAIZE DRYER

DESCRIPTION	SPECIFICATION
• Capacity	580Kg/m ³ ; 50ton
• Dimension : L*W*H (mm)	6966*4857*18918
• Dimension of machine and chaff furnace: L*W*H (mm)	14860*4857*18918
• Burner	
Model	Double nozzle with gun type
Ignition method	Auto ignition by high pressure
Burning volume	45-60
Fuel type	Diesel
• Husk burning furnace	
Model	Indirect hot air (automatic temperature control)
Ignition method	Manual ignition

Indirect furnace husk consumption (kg/h)	60-200
• Main performance parameters	
Feeding time (min.)	50
Discharging time (min.)	40
Moisture reducing rate (drying rate)	0.8-1.5%
• Power type	220/380V ; 50/60Hz
• Required power for dryer	34.5Hp
• Required power for husk burning furnace	16Hp

7) MAIZE THRESHER

DESCRIPTION	SPECIFICATION
• Production capacity	1500 – 2000K
• Power required	0.75 KW
• Voltage	220V
• Electricity consumption	7Kw/h
• Number of knife blade	NA

8) MAIZE HARVESTER

DESCRIPTION	SPECIFICATION
• Engine	Deutz TCD 4.1, EU Stage IV (USTier4, 4 cylinder, 156.5HP, 11KW, 609 Nm
• Transmission	2 Pcs . PROCLAIN MS082 – speed wheel motors, optional 4 wheel drive with 2Pcs. Steering wheel engines.
• Stainless steel diesel tank	195 l
• Speed :	
speed level 1	0 – 10km/h
speed level 2	0 – 20km/h
• Hydraulic tank	55 liters
• Brakes	Negative brakes
• Rotor sampler	0 – 60 r/min
• Weighing hopper	2250 liters
• Front lift Category 2 linkage	3600kg
• Maize chopper	BIGDRUM 1250 (1350KG)
• Forage blower (optional)	Blowing capacity, 7kg per second
• Weight (with kemper)	4700kg
• Dimension Transport position l x w x h (m) Working position; l x w x h (m)	8.50 x 2.10 x 4.20 8.50 x 2.10 x 3.10

9) TRACTOR WITH 4 WHEEL DRIVE

DESCRIPTION	SPECIFICATION
• Power capacity	80hp to 100hp
• Engine speed	2200RPM
• Fuel pump	Multi cylinder inline
• Number of cylinder	4
• Steering type	Power steering
• Power tiller operated (PTO)	69 HP
• Fuel tank	67 liters
• Brakes	Multi disc oil immersed brakes
• Power take off type	Dual speed, live/ground PTO, 6 splines
• Total weight	2845kg
• Lifting capacity	2400kg
• Clutch	Heavy duty dry dual clutch
• Gear box	12 forward + 12 reverse
• Battery	12v,, 88 Ah,
• Forward speed	1.60 – 32.70Kmph
• Reverse speed	1.34 – 27.43 Kmph
• Transmission type	Synchromesh

➤ PAMOL Plantations Plc.

A Strategic Master Plan to rehabilitate the Company within a 10-year period from 2025 to 2034 has been elaborated and is within the framework of the Growth and Employment Strategic Paper (G.E.S.P.) and the Rural Sector Development Strategy Paper (RSDSP) of the Ministry of Agriculture and Rural Development.

An extract of this plan is herewith presented in the attached table, phased into short term, medium term and long term requirements. This would specifically involve:

- 1) Acquisition of a 30MT/Hr. expandable to 60MT/Hr. palm oil mill.
- 2) Refurbish and upgrade the oil mill at Ndian Estate
- 3) Plantation rehabilitation (replanting)
- 4) Plantation development
- 5) Rehabilitation of roads, bridges and culverts
- 6) Genetic Improvement of oil palm seeds by at least 10% increase in present yield potential.
- 7) Increase of Oil palm seeds production capacity from 1.9 to 3.5 million units per year
- 8) Rehabilitation of workers' housing, health and recreational facilities

Given the present state of structural decay in the Company, the scale of reconstruction and rehabilitation is far beyond the acquisition of a brand-new palm oil mill for Lobe Estate and the replanting of over 50% of the plantation in 10 years. This is because other dilapidated areas include the overhauling of Ndian mill, extensive maintenance of roads, and revitalization of oil palm research operations as well as welfare facilities such as hospitals and recreational structures. This plan is highly capital intensive and would require substantial adjustments of the share capital of the Company (i.e recapitalization of Pamol).

S/N	DESCRIPTION OF ITEMS	UOM	PERIOD AND QUANTITIES		
			SHORT-TERM (2025 - 2026)	MEDIUM TERM (2025 - 2029)	LONG TERM (2025 - 2034)
			QTY	QTY	QTY
ROAD EQUIPMENT/BRIDGES					
1	Graders	Units	2	2	2
2	Compactors	Units	2	2	2
3	Wheel loaders	Units	2	2	2
4	Backhoe excavator	Units	0	1	1
5	Bulldozers	Units	1	1	1
6	Bridges	Units	15	30	41
7	Culverts	Units	30	70	101
ROLLING STOCK FOR FFB & ROAD UPKEEP					
1	4WD Dump Trucks (Tipping) - 12 MT	Units	10	12	14
2	4WD Tractors/Trailers (Tipping)	Units	6	12	15
PLANTATION AGRICULTURAL TOOLS					
1	Harvesting Poles (Alluminium 9/9 m)	Units	366	732	1098
2	Harvesting knives (Sickle knives)	Units	973	1946	2919
OIL PALM REPLANTING (REHABILITATION)					
1	Nursery Seedling Production	Ha	1 592	4 386	5 965
2	Replanting	Ha	1 592	4 386	5 965
3	Immature Field Upkkep	Ha	1 592	4 386	5 965
FACTORY EQUIPMENT AND PLANTS					
1	New Mill balance Cost	Bulk	1	1	1
2	Forklift	Units	1	1	1
3	Structural Steel work/Roof Rehabilitation	Units	1	1	1
4	Scaffold - Mobole Alluminium	Units	1	1	1
5	Babcock Boiler rehabilitation	Units	1	1	1
6	Scraper Chain Coveyor, Bunch Stalk	Units	1	1	1
7	Fruit Cages for Ndian	Units	20	30	40
8	Sterilizer Repairs/Vertical Sterilizer	Units	3	3	9
9	Digester - 3500 Lt Complete	Units	1	2	3
10	Press - P.15 complete for Ndian	Units	1	2	3
11	Generator - 350/400 KVA	Units	1	1	2
12	Electric Water Pump 22 KW/2900 RPM	Units	3	4	5
13	Main Powerhouse Ccontrol Panel	Units	1	1	1
14	Turbine Overhaul/Purchase	Units	1	2	3
15	Vibrating Circular Screen	Units	1	2	3
16	Desander	Units	1	1	2

17	Nut Plant rehabilitation	Units	1	1	2
18	Weighbridge overhaul	Units	1	2	3
19	Welding plant	Units	3	3	4
20	Instrumentation (Temp/Pressure Gauges)	Units	1	1	1
21	Electrogear Units	Units	1	1	1
22	Lathe Machine	Units	1	1	2
23	Pillar drilling Machine	Units	1	1	2
24	Power Hacksaw Machine	Units	1	2	3
25	Pedestal Grinder Machine	Units	1	2	3
26	Boiler feed pumps with electric motor	Units	1	2	4
27	Firefighting Equipment	Units	1	1	2
28	Arc welding transformers	Units	2	3	4
29	Power factor improvement Equipment	Units	1	2	3
RESEARCH TOOLS AND REHABILITATION OF SEED PRODUCTION UNIT					
1	Digital wireless weather station for Lobe and Ndian Estates	Units	2	2	2
2	Extension and renovation of bunch reception and fermentation hall in Lobe	bulk	Bulk	bulk	bulk
3	Extension and renovation of fresh seed store in Lobe	bulk	Bulk	bulk	0
4	Construction of water tanks for soaking seeds	bulk	Bulk	0	bulk
5	Construction of seed drying hall in Lobe	bulk	Bulk	bulk	bulk
6	Extension, renovation and electrification of heat treatment rooms in Lobe	bulk	Bulk	bulk	bulk
7	PBS duraweb® pollination bags	units	7 500	11 500	15 000
8	Metallic Ladders c/w chains	Units	100	200	250
9	Vertical depulpers	pieces	2	4	4
10	Bore hole for water supply		1	1	1
11	Renovation of bunch analysis laboratory building in Lobe	bulk	Bulk	bulk	bulk
12	Automated Soxhlet system	Units	0	0	2
13	Hydrotec™ 8000 One integrated total fat solution	Units	0	1	2
14	Analytical Electronic balances	Units	1	1	2
15	Sartorius Toploading Balance	Units	1	1	2

UPGRADING OF NDIAN MILL (2028 TO 2030)		
S/N	DESCRIPTION	QTY
1	625 KVA Steam Turbine/Alternator Complete with accessories	2
2	Replacement of 10 Mt/Hr Boiler	1
3	Vertical Sterilizers	2
4	Rehabilitation of Structural Steel Works/Roofs	
FACTORY REQUIREMENT SHORT TERM (2025 TO 2026)		
S/N	DESCRIPTION	QTY
1	Structural Steel work/Roof Rehabilitation for Ndian Mill	1
2	Scaffold - Mobole Alluminium	1
3	Babcock Boiler rehabilitation for Ndian	1
4	Scraper Chain Coveyor, Bunch Stalk for Ndian Mill	1
5	Fruit Cages for Ndian	20
6	Sterilizers	3
7	Digester - 3500 Lt Complete for Ndian	1
8	Press - P.15 complete for Ndian	1
9	Generator - 350/400 KVA	1
10	Electric Water Pump 22 KW/2900 RPM complete with electric motor	3
11	Main Powerhouse Ccontrol Panel complete with Components	1
12	Turbine Overhaul for Ndian	1
13	Vibrating Circular Screen for Ndian	1
14	Desander	1
15	Nut Plant rehabilitation	1
16	Weighbridge overhaul for Ndian	1
17	Welding plant	1
18	Instrumentation (Temperature/Pressure Gauges)	1
19	Electrogear Units	1
20	Lathe Machine	1
21	Pillar drilling Machine	1
22	Power Hacksaw Machine	1
23	Pedestral Grinder Machine	1
24	Boiler deed pumps complete with electric motor	1
25	Firefighting Equipment	1
26	Arc welding transformers	2
27	Forklift	1
28	Power factor improvement Equipment complete	1

➤ **Upper Nun Valley Development Authority**

UNVDA was created in 1970 and was transformed into a development authority by Presidential Decree No. 78/157 of 11 May 1978. Its mandate is to take charge of the development of the agricultural sector in the Upper Noun Valley and to intervene directly in the production, processing and marketing of rice. UNVDA covers five divisions, namely Mezam, Ngoketunjia and Bui in the North-West Region, and Noun and Bamboutos in the West Region. Before the onset of the crisis, UNVDA managed more than 13,000 rice producers with the following main activities (i) rice seed multiplication; (ii) development of cultivable areas; (iii) provision of agricultural inputs; and (iv) development and maintenance of paddy fields.

For this purpose, the needs of UNVDA are the followings:

No	TASK	UNIT	QTY
LOT 1: CIVIL ENGINEERING EQUIPMENT			
1	Spare parts for the rehabilitation and maintenance of civil engineering machinery and agricultural tractors with hitches	Ff	1
2	Supply of tool boxes (auto-mechanical, auto-electrical and plumbing)	Ff	1
3	Supply of a 4x4 double-cab Pick-up RANGER 3.2 WILDTRACK T6 TURBO 3.2L DIESEL 10CV, including GPS installation, maintenance training and all constraints	U	2
4	Supply of a Road Tractor Truck, standard execution with tropicalization including GPS installation, maintenance training and all constraints	U	1
5	Supply of a 3-axle 50T Tank Carrier (Trailer)	U	1
6	Supply of a D7 bulldozer with Rippers, Engine power 309hp, 1400rpm	U	2
7	Supply of a loader shovel, Engine power 420hp, 1700rpm	U	2
8	Supply of a grader, Engine power 196hp	U	3
9	Supply of a Long Reach excavator hydraulic shovel, Engine power 425hp, handling distance: 13.00m	U	5
10	Supply of a single-cylinder compactor, Engine power 120hp	U	2
11	Supply of dump trucks of 30T (14m3), standard execution with tropicalization including GPS installation, maintenance training and all constraints	U	6
12	Supply of a water tanker (10m3) 12.9L Turbo Diesel Manual 6x4	U	2
13	Supply of a 12-ton hydraulic folding boom truck including GPS installation, maintenance training and all constraints	U	1
14	Supply of a 7 to 10-ton van for transporting rice including GPS installation, maintenance training and all constraints	U	2
15	Supply of a 28-ton van for transporting rice including GPS installation, maintenance training and all constraints	U	3
16	Acquisition of small civil engineering equipment (Concrete mixer, Needle vibrator, Manual roller compactor, Jumping machine, Motor pump, 160A mobile welding station, etc.)	U	1
17	160 bar high-pressure washing machine	Ff	2

No	TASK	UNIT	QTY
18	Acquisition of topographic equipment including accessories	Ff	1
19	Acquisition and installation of a 350KVA soundproof three-phase diesel generator including two (02) 330-440KVA inverters, installation and all constraints	U	1
LOT 2: AGRICULTURAL PRODUCTION EQUIPMENT			
1	Supply of 92hp (ISO) 3 cylinder 3.3L, 540RPM agricultural tractors including GPS installation, maintenance training and all requirements	U	10
2	Supply of 75hp (ISO) 3 cylinder 3.3L, 540RPM agricultural tractors including GPS installation, maintenance training and all requirements	U	10
3	Supply of tractor hitches (Rotorvator)	U	30
4	Supply of tractor hitches (Disc sprayer)	U	30
5	Supply of tractor hitches (Disc cart)	U	30
6	Supply of mini tracked combine harvesters including accessories	U	20
7	Supply of paddy threshers with wheels (2.2kw engine) including accessories	U	70
8	Supply of manual seeders	U	500
9	Supply of manual fertilizer dispensers	U	90
10	Supply of weeders	U	75
11	Supply of widening crescents	U	900
12	Supply 16L sprayers	U	300