

# HRODC Ltd.



## HRODC Ltd QUOTATION



**With Kindest Regards,**

A stylized, handwritten signature in gold ink, appearing to read "R. B. Crawford".

**Prof. Dr. R. B. Crawford**  
**Chief Executive**



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Human Resource and Organisational Development Consultancy (HRODC) Ltd. Registered in England No. 6088763.

**Registered Office:** 122A Bhylls Lane, Castlecroft, Wolverhampton, West Midlands WV3 8DZ, UK

Prof. Dr. R. B. Crawford

PhD (London), MEd.M. (Bath), Adv. Dip. Ed. (Bristol), PGCIS (TVU), ITC (UWI), MAAM, MAOM, LESAN, MISGS. Visiting Prof. P.U.P.  
Chief Executive & Chief Consultant – HRODC Ltd.



V.A.T. # 8958 765 38

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<h2>Human Resource and Organisational Development Consultancy (HRODC) Ltd.</h2>		

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<b>To:</b>	
<b>Quotation #</b>	
<b>Req. Ref.</b>	NA
<b>Date Issued:</b>	
<b>Validity Period:</b>	30 Days
<b>Prepared By:</b>	Prof. Dr. R. B. Crawford
<b>Number of Pages:</b>	

### HRODC Ltd – Legal Parameter

Human Resource and Organisational Development Consultancy (HRODC) Ltd is Registered in England, with Registration Number 6088763. Its VAT Registration is: 8958 765 38. It is directly accountable to, and monitored by, several government agencies, including Companies House, an Executive Agency of the Department for Business, Enterprise and Regulatory Reform (BERR). All 'Offices' of HRODC Ltd, including National Representatives are subject to public scrutiny and transparency. Its Registered Office is 122A Bhylls Lane, Castlecroft, Wolverhampton, West Midlands WV3 8DZ, UK, with Office in London UK. It has National Representatives in Nigeria, Ghana, Cameroon, United Arab Emirates (UAE), Kingdom of Saudi Arabia, among others. Prof. Dr. R. B. Crawford, PhD (London), MEd.M. (Bath), Adv. Dip. Ed. (Bristol), PGCIS (TVU), ITC (UWI), MAAM, MAOM, LESAN, MISGS. Visiting Prof. P.U.P. is its Chief Executive.

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# Machine Quotation

Column Number						
Row No.	1	2	3	4	5	6
	Product or Service	Product/ Service #	Short Description	Quantity	Unit Price US\$	Total Cost in US\$
1.	Extruder	HRODC_HDPE1	HRODC_HDPE1 - 3-Layers Composite Sheet Production Line	1	\$196,000.00	\$196,000.00
<b>Subtotal</b>		Excluding Delivery, installation and training				
<b>Delivery</b>		To Be Advised				
<b>Installation and Training</b>		Free				<b>\$0.00</b>
<b>Spare parts</b>		1 Set Free				<b>\$0.00</b>
<b>V.A.T. @</b>		Europeans Only				<b>\$0.00</b>
<b>Grand Total</b>						
<b>Payment Terms</b>		<ol style="list-style-type: none"> <li>The prices, above, exclude delivery, installation and training, unless otherwise stated. These costs will be advised at your request.</li> <li>Products costing in excess of us US\$40,000.00 require a deposit of 50% by Telegraphic Transfer (TT) or bank counter credit, at the time of order. The remaining 50%, by Irrevocable Letter of Credit (ILC), is required one week before shipment of the complete item.</li> <li>100% of the cost of items of up to \$40,000.00 is required at the time of order.</li> <li>Bank details for payment, and extended terms, where applicable, will be included in the Proforma Invoice, following the confirmation of your order.</li> </ol>				

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# Product Description

Start of HRODC\_HDPE1 - 3-Layers Composite Sheet Extruder Production Line Description



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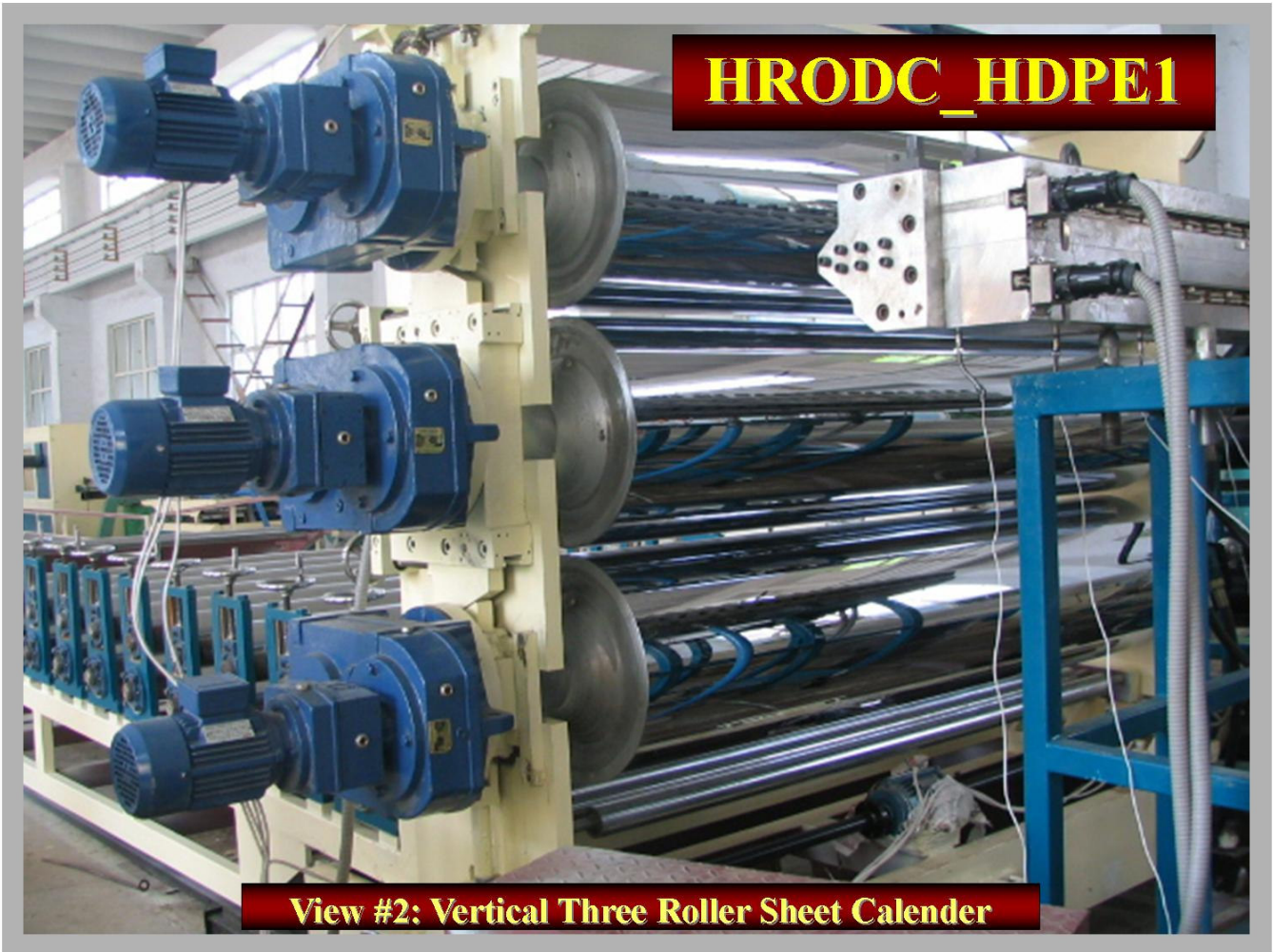
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<b>HRODC_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification</b>	
<b>Main Technical Issues</b>	<b>Specifics</b>
1. Width Of Sheet	1220mm
2. Thickness Of Sheet	4mm~25mm
3. Sheet 3layers Thickness Proportion	A(new material)10% B(recycle material)80% A (new material)10%
4. Material	PE Granules PE Recycle Material
5. Max Capability	550kg

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**HRODC\_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification**

6. Total Power	335KW
7. Power Consumption	~270KW
8. Total Weight	~21000kg
9. Outline Dimensions	Length = 28,000 mm Width = 1,860 mm Height = 2,650 mm

**Component List****Number of Sets Included**

1. GZSJ-90X30 single screw extruder	1 set
2. GZSJ-65X30 single screw extruder	1 set
3. GZBM-1220T type sheet mould die head	1 set
4. GZYG-1220vertical type three rollers calendar	1 set
5. GZWK-6 roller control device oil heat type	1 set
6. GZLG-1220 water cooling roller bench	1 set
7. GZJQ-6.0 saw bit trimming cut device	
8. GZSQ-1220 four roller hauling device	1 set
9. GZQG-1220 in-feed set-up	
10. GZJBT-1220 aggregate packing table	1 set
11. PLC control system	1 set
	1 set
	1 set

**Main Extruder-1 GZSJ-90X30 Single Screw Extruder****Aspects****Specifics**

1. Screw Parameter	
1.1. Screw Diameter	90mm

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**HRODC\_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification**

1.2 Max Capability	480kg/h
1.3 Screw Ratio	125RPM
1.4 Diameter	90mm
1.5 L/D	30
1.6 Material	38CrMoAlA
1.7 Surface Treatment	Nitrogen treatment
2. Machine Barrel	
2.1 Material	38CrMoAlA
2.2 Surface Treatment	Nitrogen treatment
2.4 Heating Zone	6
2.5 Heating Type	Ceramic heating collar
2.6 Heating Power	36kw
2.7 Cooling Type	Blower cooling
2.8 Cooling Power	0.25kwX6
3. Positive Gear Box	
3.1 Basic Structure	Vertical type
3.2 Gear Type	Bevel wheel
3.3 Material Of Gear	20CrMnTi, carburization□ quenching
3.4 Lubrication System	Pressure lubrication
4. Driving System	
4.1 Type Of Electric Machine	A/C electric machine
4.2 Power Of Electric Machine	160kw
5. Automatically Charging Device	
5.1 Type	Vacuum charging automatically
5.2 Power	2.2kw
5.3 Convey Ability	1500kg/h
6. Hopper Drying System	
6.1 Volume Of Drying Hopper	100kg

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**HRODC\_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification**

6.2 Galvanothermy Power	5.4KW
6.3 Blower Power	0.25KW
7.Extruding Pressure Control System	
7.1 Main Engine Closed-Loop Control	SIEMENS
Element Origin	
7.2 Pressure Sensor Element Origin	China - Zhengzhou
8. Outline Dimension	Length: = 3,350 mm Width: = 1,050 mm Height: = 2,650 mm
9. Weight	~3,200 kg (3.2 Tons)

**Main Extruder-2 GZSJ-65X30 Single Screw Extruder**

Aspects	Specifics
1.screw parameter	
1.1. screw diameter	65mm
1.2 max capability	165kg/h
1.3 screw ratio	160RPM
1.4 diameter	65mm
1.5 L/D	30
1.6 material	38CrMoA1A
1.7 surface treatment	Nitrogen treatment
2. machine parameter	
2.1 material	38CrMoA1A
2.2 surface	Nitrogen treatment
2.4 heating zone	5
2.5 heating type	Ceramic heating collar
2.6 heating power	25kw
2.7 cooling type	Blower cooling
2.8 cooling power	0.25kwX5

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**HRODC\_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification**

3.positive gear box	
3.1 basic structure	Vertical installment
3.2 gear type	Bevel wheel
3.3 material of gear	20CrMnTi, carburization□ quenching
3.4 lubrication system	Pressure lubrication
4.driving system	
4.1 type of electric machine	DC electric machine
4.2 power of electric machine	55kw
5.automatically charging device	
5.1 type	Vacuum charging automatically
5.2 power	1.5kw
5.3 convey capability	1500kg/h
6.hopper drying system	
6.1 hopper drying volume	100kg
6.2 galvanothermy power	5.4KW
6.3 blower power	0.25KW
7.extruding pressure control system	
7.1 main engine closed-loop control element origin	SIEMENS
7.2 pressure sensor element origin	China - Zhengzhou
8.outline dimension	Length: = 2,550 mm Width: = 950 mm Height: = 2,350 mm
9.weight	~2,500 Kg (3.5 Tons)
<b>GZBM-1220 T-Type Sheet Mould Die Head</b>	
<b>Aspects</b>	<b>Specifics</b>
1. Die Head Structure	With Ratio Divider T Type Clothes Hander Die Head



**HRODC\_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification**

2. Die Head Mould	Up] Down Die Lip Can Adjust] But Down Die
3. Accommodation Mode	Lip Can Adjust Slightly
4. Material Of Die Head Mould	5CrNiMo
5. Width Of Die Head Lip	1,320 mm
6. Mould Flow Passage Surface Hardness Treatment	Surface hard plating
7. Heating Power	30 KW
8. Heating Type	Stainless steel stick

**GZYG-1220 Vertical Three Roller Calender**

Aspect	Specific
1. Structure Of Calender	Vertical
2. Rolling Diameter	450mmX1350mm
3. Driving Power	3KW X3
4. Walk Distance Of Calender	1000mm
5. Outline Dimension	Length: = 3,100 mm Width: = 1,860 mm Height: = 2,350 mm
6. Weight	5,600 kg (5.6 Tons)

**GZWK-6 Roller Control Device (Oil Heat Type)**

Aspect	Specifics
1. Power Of Pressure Pump	1.1KW
2. Hot Oil Flow Rate	100L/min
3. Hot Oil Temperature	300°
4. Heating Power	12KW
5. Oil Temperature Control Range	50°~200°

**GZSLG-1200 Water Cooling Roller Bench**

Aspects	Specifics
1. Specification Of Water Cooling Roller	Diameter 200 mm x 1,350 mm
2. Amount Of Water Cooling Roller	20
3. Material Of Water Cooling Roller	Alloy sink roll] surface plating

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<b>HRODC_HDPE1 - 3-Layers Composite Sheet Extruder Line - Technical Specification</b>	
4.Length Of Cooling Bracket	6000mm
<b>GZJQ-6.0 Saw Bit Trimming Cut Device</b>	
<b>Aspect</b>	<b>Specifics</b>
1.Trimming Cut Position 2.Cutting Power 3.Effect Cut Width 1.1 4.Max Cut Thickness	2 2.2KWx2 1000mm~1220mm 25mm
<b>GZSQ-1220 Four Roller Hauling Device</b>	
<b>Aspect</b>	<b>Specifics</b>
1.Hauling Steel Roller Size 2. Hauling Rubber Roller Size 3.Clamp Type 4.Hauling Power And Timing	Diameter 200mmx1350 Diameter 200mmx1350 Cylinder Can Achieve Left And Right Fine Balance Independently 4KW frequency control
<b>GZQG-1220 In-feed Set-Up</b>	
<b>Aspect</b>	<b>Specifics</b>
1.Cutting Type 2.Power Of Cutting Power, With Band Cylinder Left And Right Action system	Disc saw 3KW
<b>GZJBT-1220 Aggregate Packing Table</b>	
<b>Aspect</b>	<b>Specifics</b>
1.height of aggregate table 2. aggregate packing size	800~1100mm 6000mmX1220mm
<b>PLC control system</b>	
<b>Aspect</b>	<b>Specifics</b>
1.PLC computer control system 2.electric control element 3.DC timing device	SIEMENS SCHNEIDER ERUOPEAN LAND



Details of Spare Parts Supplied With New HRODC_HDPE1 Extruder Machine		
Module	Part Name	Quantity
Extruder Sj90x30 Sj65x30	Thermoelectric Pair	12 Units
	Power Down Protection	12 Units
	AC Contactor	12 Units
	Middle Contactor	12 Units
	Button	12 Units
	Switch Option	12 Units
	Ceramic Heating Collar	2 Sets
	Temperature Controller	3 Units
	Pressure Sensor	1 Units
Electric Control System	Middle Contactor	10 Units
	AC Contactor	10 Units
Sheet Die Head	Electric Heating Stick	20 Units
	High Strength Bolt	30 Units
Three Roller Calender	Sealing Ring	9 Units
	Axle	6 Units
Trimming Cut Device	Saw Bit	6 Units
Crusher	Cutter Blade	12 Units
Hauling Machine	Chain	5 meters
In-feed Set-Up	Cutter Blade	3 Units
Others	Electroprobe	2 Units
	Philips Screw Driver	2 Units
	Straight Screw Driver	2 Units
	General Utility Spanner	2 Units
	Inner Hexagon Spanner	2 Sets

### End of HRODC\_HDPE1 - 3-Layers Composite Sheet Production Line Description

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**Additional  
Comments**

NA

**With Kindest Regards,**



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