

**HOW TO USE
2022 APRIL REVISION
FOR
2021 RATE BOOK**

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For the Items which have a Single Increase Percentage

Rate Book Section	Sub Section	Increase Percentage			
		Other	Supply Items		
			LC Processed by NWSDB	LC Processed by Contractor	
Reinforcement (with labour)		157%			
Building Works (Excluding Reinforcements)	Electrical Installations	25%			
	Painting	50%			
	Others	11%			
Fire Detection & Protection		40%			
Water Retaining Structures (Excluding Reinforcements)	Provision of concrete - Ready mixed	98%			
	Provision of concrete - Machine mixed	73%			
	Dowels	70%			
	Other	6%			
Piling (Excluding Reinforcements & Concrete)		30%			
Roads		35%			
Ferro Cement		70%			
PVC Pipes Fittings and Accessories	PVC Pipes	83%			
	PVC Fittings & Specials	93%			
GI Pipes and Fittings		120%			
Hume Pipes		40%			
Installation of PVC, DI, HDPE, GI and Hume Pipes, Fittings and Accessories		6%			
Hume Pipes		40%			
Pipe Work (Common)	Earthworks for pipe laying				
	Filling for Pipe Trenches	6%			
	Thrust Blocks				
	Valve Chamber	43%			
	Road Reinstatement	35%			
	Warning Tapes	Supply	40%		
		Laying	6%		
Basic Rates - Equipment	Earth Work Related & Hoisting Equipment	10%			
	Other All	6%			

For the Items which have a Single Increase Percentage

$$\text{New Rate} = \text{2021 Rate} + (\text{2021 Rate} \times \text{Increase Percentage})$$

- Example : Calculating the New Rate for Provision of Grade 25 Ready Mixed Concrete

2021 Rate = LKR 14,980.00 (Table B – WRS/01, Item 1.1.3)

$$\text{New Rate} = 14,980 + (14,980 \times 98\%)$$

$$\text{New Rate} = \text{LKR } 29,660.40$$

Or

$$\text{New Rate} = 14,980 \times 1.98 = \text{LKR } 29,660.40$$

For the Items which have both the LC Processed by NWSDB & LC Processed by Contractor Percentages

Rate Book Section	Sub Section	Increase Percentage		
		Other	Supply Items	
			LC Processed by NWSDB	LC Processed by Contractor
Stainless Steel Works	SS 316		41.8%	44.9%
	SS 304		77.3%	80.8%

Rate Book Section	Sub Section	Increase Percentage		
		Other	Supply Items	
			LC Processed by NWSDB	LC Processed by Contractor
Mechanical, Electrical, Automation and Associated Items (Contd.)	Pumps & Air Blowers		47%	49%
	MOV		51%	53%
	Electromagnetic Flow Meter		55%	58%
	Elevators			
	Electrical Panel Boards			
	Generators			
	Solar System		59%	62%
	Cables (Excluding Contractor's mark-up)		58%	60%

For the Items which have both the LC Processed by NWSDB & LC Processed by Contractor Percentages

$$\text{New Rate} = \text{2021 Rate} + (\text{2021 Rate} \times \text{Increase Percentage})$$

- Example : Calculating the New Rate for Supply & Fixing of 12mm dia. 400mm long SS 316 steps

- LC Processed by NWSDB

2021 Rate = LKR 2,090.00 (Table B – SS/01, Item No. 8)

New Rate

$$= 2,090.00 + (2,090.00 \times 41.8\%)$$

New Rate = LKR 2,963.62

Or

$$\begin{aligned} \text{New Rate} &= 2,090.00 \times 1.418 \\ &= \text{LKR } 2,963.62 \end{aligned}$$

- LC Processed by Contractor

2021 Rate = LKR 2,090.00 (Table B – SS/01, Item No. 8)

New Rate

$$= 2,090.00 + (2,090.00 \times 44.9\%)$$

New Rate = LKR 3,028.41

Or

$$\begin{aligned} \text{New Rate} &= 2,090.00 \times 1.449 \\ &= \text{LKR } 3,028.41 \end{aligned}$$

**For the Items which have both the LC Processed by NWSDB
& LC Processed by Contractor Percentages**

Description	LC open by the NWSDB			LC open by the Contractor or Supplier		
	FOB Cost	CIF Cost	Supply Cost	FOB Cost	CIF Cost	Supply Cost
HDPE All Pipes, Fittings & Accessories	4.3%	6%	19.5%	4.3%	6%	23%
DI Supply Graphs	10%	12%	73%	10%	12%	76%

HDPE All Pipes, Fittings & Accessories

☐ FOB Cost, CIF Cost & Supply Cost increase percentages are based on the USD value.

$$\bullet \text{ New FOB Cost} = \left(\frac{\text{2021 FOB Rate}}{202.00} \right) \times \text{Increase Factor} \times 334.99$$

$$\bullet \text{ New CIF Cost} = \left(\frac{\text{2021 CIF Rate}}{202.00} \right) \times \text{Increase Factor} \times 334.99$$

$$\bullet \text{ New Supply Cost} = \left(\frac{\text{2021 Supply Rate}}{202.00} \right) \times \text{Increase Factor} \times 334.99$$

Base Exchange Rates of 2021 Rate Book	-	LKR 202.00/USD
Base Exchange Rates of 2022 April Revision	-	LKR 334.99/USD

HDPE All Pipes, Fittings & Accessories

Example: Calculating the New Rates for Supply Cost of 160mm dia. HDPE (PE100 – SDR11 PN 16)(Asian) (Table B – PE/03)

- 2021 FOB Cost = LKR 2296.00
- 2021 CIF Cost = LKR 2480.00
- 2021 Supply Cost = LKR 3906.00

LC Open by the NWSDB

$$\text{New FOB Cost} = \left(\frac{2,296.00}{202.00} \right) \times 1.043 \times 334.99 \\ = \text{LKR } 3971.34$$

$$\text{New CIF Cost} = \left(\frac{2,480.00}{202.00} \right) \times 1.06 \times 334.99 \\ = \text{LKR } 4,359.51$$

$$\text{New Supply Cost} = \left(\frac{3,906.00}{202.00} \right) \times 1.195 \times 334.99 \\ = \text{LKR } 7,740.71$$

LC Open by the Contractor or Supplier

$$\text{New FOB Cost} = \left(\frac{2,296.00}{202.00} \right) \times 1.043 \times 334.99 \\ = \text{LKR } 3971.34$$

$$\text{New CIF Cost} = \left(\frac{2,480.00}{202.00} \right) \times 1.06 \times 334.99 \\ = \text{LKR } 4,359.51$$

$$\text{New Supply Cost} = \left(\frac{3,906.00}{202.00} \right) \times 1.23 \times 334.99 \\ = \text{LKR } 7967.42$$

DI Supply Graphs

- ❑ **FOB Cost** and **CIF Cost** increase percentages are based on the USD value.
- ❑ **Supply Cost** increase percentages are based on the LKR value.

- $$\text{New FOB Cost} = \left(\frac{\text{2021 FOB Rate}}{202.00} \right) \times \text{Increase Factor} \times 334.99$$

- $$\text{New CIF Cost} = \left(\frac{\text{2021 CIF Rate}}{202.00} \right) \times \text{Increase Factor} \times 334.99$$

- $$\text{New Supply Cost} = \text{2021 Supply Cost} \times \text{Increase Factor}$$

Base Exchange Rates of 2021 Rate Book	-	LKR 202.00/USD
Base Exchange Rates of 2022 April Revision	-	LKR 334.99/USD

DI Supply Graphs

- Example: Calculating the New Rates for Supply Cost of 1200mm dia. (Asian) DI Double Flanged 6000mm long Pipe (Graph-B-DI/17)
 - 2021 FOB Cost = LKR 1,540,000.00
 - 2021 CIF Cost = LKR 1,760,000.00
 - 2021 Supply Cost = LKR 2,200,000.00

LC Open by the NWSDB

- **New FOB Cost** = $\left(\frac{1,540,000.00}{202.00}\right) \times 1.10 \times 334.99 = \text{LKR } 2,809,272.57$
- **New CIF Cost** = $\left(\frac{1,760,000.00}{202.00}\right) \times 1.12 \times 334.99 = \text{LKR } 3,268,971.72$
- **New Supply Cost** = $2,200,000.00 \times 1.73 = \text{LKR } 3,806,000.00$

LC Open by the Contractor or Supplier

- **New FOB Cost** = $\left(\frac{1,540,000.00}{202.00}\right) \times 1.10 \times 334.99 = \text{LKR } 2,809,272.57$
- **New CIF Cost** = $\left(\frac{1,760,000.00}{202.00}\right) \times 1.12 \times 334.99 = \text{LKR } 3,268,971.72$
- **New Supply Cost** = $2,200,000.00 \times 1.76 = \text{LKR } 3,872,000.00$

Published Tables in 2021 December Revision

- Relevant for the Attachments –
 - DI Tables
 - Valves
 - Ultrasonic Flow Meters
 - Water Meters (Volumetric Type)
 - Mastic Material

Description	LC open by the NWSDB			LC open by the Contractor or Supplier		
	FOB Cost	CIF Cost	Supply Cost	FOB Cost	CIF Cost	Supply Cost
Attachement-01A-DI Tables						
Attachement-04A-Valves						
Attachement-04D- Ultrasonic Flow Meter	8%	7%	56%	8%	7%	59%
Attachement-04D- Water Meters (Volumetric Type)						
Attachement-04D- Mastic Material Primer Compound and Tape						

Published Tables in 2021 December Revision

- ❑ **FOB Cost** and **CIF Cost** increase percentages are based on the USD value.
- ❑ **Supply Cost** increase percentages are based on the LKR value.

$$\bullet \text{ *New FOB Cost} = \left(\frac{\text{2021 FOB Rate}}{203.00} \right) \times \text{Increase Factor} \times 334.99*$$

$$\bullet \text{ *New CIF Cost} = \left(\frac{\text{2021 CIF Rate}}{203.00} \right) \times \text{Increase Factor} \times 334.99*$$

$$\bullet \text{ *New Supply Cost} = \text{2021 Supply Cost} \times \text{Increase Factor}*$$

Base Exchange Rates of 2021 Dec. Revision	-	LKR 203.00/USD
Base Exchange Rates of 2022 April Revision	-	LKR 334.99/USD

Published Tables in 2021 December Revision

Example:

Calculating the New Rate for Supply of 600mm dia. DI Pipes, Socket & Spigot – R.R.J (Asian) (Table B – DI/1A)

LC Opened by NWSDB

Values Consider from 2021 Dec. Revision

FOB Cost = LKR 33,591.00

CIF Cost = LKR 39,192.00

Supply Cost = LKR 49,457.00

- ***New FOB Cost*** = $\left(\frac{33,591.00}{203.00}\right) \times 1.08 \times 334.99 = \text{LKR } 59,866.31$
- ***New CIF Cost*** = $\left(\frac{39,192.00}{203.00}\right) \times 1.07 \times 334.99 = \text{LKR } 69,201.73$
- ***New Supply Cost*** = $49,457.00 \times 1.56 = \text{LKR } 77,152.92$

Published Tables in 2021 December Revision

Example:

Calculating the New Rate for Supply of 600mm dia. DI Pipes, Socket & Spigot – R.R.J (Asian) (Table B – DI/1A)

LC Opened by Contractor

Values Consider from 2021 Dec. Revision

FOB Cost = LKR 33,591.00

CIF Cost = LKR 39,192.00

Supply Cost = LKR 51,790.00

- ***New FOB Cost*** = $\left(\frac{33,591.00}{203.00}\right) \times 1.08 \times 334.99 = \text{LKR } 59,866.31$
- ***New CIF Cost*** = $\left(\frac{39,192.00}{203.00}\right) \times 1.07 \times 334.99 = \text{LKR } 69,201.73$
- ***New Supply Cost*** = $51,790.00 \times 1.59 = \text{LKR } 82,346.10$

Published Tables in 2021 December Revision

Example: Calculating the New Rates for Supply of 600mm dia. DI Double Socketed 90 deg. Bend (R.R.J) (Asian) (Table B – DI/12)

LC Opened by NWSDB

Values Consider from 2021 Dec. Revision

2021 FOB Cost = LKR 132,489.00

2021 CIF Cost = LKR 154,577.00

2021 Supply Cost = LKR 195,062.00

- ***New FOB Cost*** = $\left(\frac{132,489.00}{203.00}\right) \times 1.08 \times 334.99 = \text{LKR } 236,123.59$
- ***New CIF Cost*** = $\left(\frac{154,577.00}{203.00}\right) \times 1.07 \times 334.99 = \text{LKR } 272,938.28$
- ***New Supply Cost*** = $195,062.00 \times 1.56 = \text{LKR } 304,296.72$

Published Tables in 2021 December Revision

Example: Calculating the New Rates for Supply of 600mm dia. DI Double Socketed 90 deg. Bend (R.R.J) (Asian) (Table B – DI/12)

LC Opened by Contractor

Values Consider from 2021 Dec. Revision

2021 FOB Cost = LKR 132,489.00

2021 CIF Cost = LKR 154,577.00

2021 Supply Cost = LKR 204,263.00

- ***New FOB Cost*** = $\left(\frac{132,489.00}{203.00}\right) \times 1.08 \times 334.99 = \text{LKR } 236,123.59$
- ***New CIF Cost*** = $\left(\frac{154,577.00}{203.00}\right) \times 1.07 \times 334.99 = \text{LKR } 272,938.28$
- ***New Supply Cost*** = $204,263.00 \times 1.59 = \text{LKR } 324,778.17$

Basic Rates – Material

- Use CIDA bulleting to extract relevant material indices increased percentages and derive the rates according to the following example.

Material	2021 NWSDB Rate	2021 June CIDA Indices	2022 March CIDA Indices	Indices Increase Percentage	New Rate
Rubble – (6"x9")	1928.00	843.3	1147.6	36%	2,623.71
Metal – (3/4")	2651.00	405.2	536.8	32%	3,511.99
Sand – Fine Sand	5654.00	3837.9	4289.5	12%	6,319.30
Bricks – Wire Cut (M10)	28.00	640.2	720.1	12%	31.49
Sanitary Ware (M18) – Urinal with cistern	9833.00	409.7	451.0	10%	10,824.22
General Timber – Jack Timber (4"x3")	1870.00	1607.1	1946.0	21%	2,264.34

Basic & Day Work Rates of Labour

- Use 2021 December Revision, published tables to apply the 3% percentage increase for the labour rates.

Laboratory Equipment's & Miscellaneous Items

- Use attached tables with the circular for new rates of Laboratory Equipment's & Miscellaneous Items

THANK YOU