

URANIUM CORPORATION OF INDIA LIMITED
JADUGUDA MINES

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Public Tender No. : PUR / 2 / RC / Idlers / 610
Item : Idlers for Conveyor Belt

M A T E R I A L D E T A I L S

FOR JADUGUDA:

IDLER FOR 600MM WIDTH CONVEYOR BELT:

Sl.No	Type of Idler	Size of Idler	Tentative Qnty.
1	Troughing Idler	Roller size – 139.7mm x 235 long x 25mm shaft diameter long – 890mm & hole centre 840mm	60
2	Troughing Impact Idler	Roller size – 152mm x 235mm long x 25mm shaft dia Long – 890mm & Hole centre – 840mm	40
3	Troughing Training Idler	Supporting base of channel – 100mm x 50mm Long – 890mm & Hole centre – 840mm	20
4	R.D. Return Idler	Disc O/D – 139.7mm x Hole center 860mm x 20mm shaft dia with two ends hanger bracket and no. of rubber disc – 6	50

IDLER FOR 750MM WIDTH CONVEYOR BELT:

Sl.No	Type of Idler	Size of Idler	Tentative Qnty.
5	Troughing Idler	Roller size –O/D - 139.7mm x 295 long x 25mm shaft diameter Long – 1060mm & hole centre 1000mm	40
6	Troughing Impact Idler	Roller size –O/D - 152mm x 295mm long x 25mm shaft Long – 1060mm & Hole centre – 1000mm	25
7	Troughing Training Idler	Supporting base of channel – 100mm x 50mm Long – 1060mm & Hole centre – 1000mm	15
8	R.D. Return Idler	Disc O/D – 139.7mm x Hole center 920mm x 25mm shaft dia with two ends hanger bracket and no. of rubber disc – 8	20

IDLER FOR 800MM WIDTH CONVEYOR BELT:

Sl.No	Type of Idler	Size of Idler	Tentative Qnty.
9	Troughing Idler	Roller size – 114.3mm x 315 long x 25mm shaft diameter Long – 1150mm & hole centre 1100mm	50
10	Troughing Impact Idler	Roller size –152.4mm x 312mm long x 25mm shaft Long – 1150mm & Hole centre – 1100mm	25
11	Troughing Training Idler	Supporting base of channel – 100mm x 50mm Long – 1150mm & Hole centre – 1100mm	20

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12	R.D. Return Idler	Disc O/D – 139.7mm x Hole center 1000mm x 25mm shaft dia with two ends hanger bracket and no. of rubber disc – 8	30
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IDLER FOR 900MM WIDTH CONVEYOR BELT:

Sl.No	Type of Idler	Size of Idler	Tentative Qnty.
13	Troughing Idler	Roller size –139.7mm x 350 long x 25mm shaft diameter Long – 1220mm & hole centre 1150mm	20
14	Troughing Impact Idler	Roller size –150mm x 350mm long x 25mm shaft Long – 1220mm & Hole centre – 1150mm	40
15	Troughing Training Idler	Supporting base of channel – 100mm x 50mm Long – 1220mm & Hole centre – 1150mm	12
16	R.D. Return Idler	Disc O/D – 139.7mm x Hole center 1220mm x 25mm shaft dia with two ends hanger bracket and no. of rubber disc – 9	25

IDLER FOR 1000MM WIDTH CONVEYOR BELT:

Sl.No	Type of Idler	Size of Idler	Tentative Qnty.
17	Troughing Idler	Roller size –O/D - 139.7mm x 380 long x 25mm shaft diameter Long – 1360mm & hole centre 1290mm	30
18	Troughing Impact Idler	Roller size –O/D - 152mm x 380mm long x 25mm shaft Long – 1360mm & Hole centre – 1290mm	25
19	Troughing Training Idler	Supporting base of channel – 100mm x 50mm Long – 1360mm & Hole centre – 1290mm	15
20	R.D. Return Idler	Roller size – 139.7mm x 1360mm long x 25mm shaft dia with two ends hanger bracket and no. of rubber disc – 10	40

IDLER FOR 1200MM WIDTH CONVEYOR BELT:

Sl.No	Type of Idler	Size of Idler	Tentative Qnty.
21	Troughing Idler	Roller size –O/D - 139.7mm x 430 long x 25mm shaft diameter Long – 1510mm & hole centre 1450mm	30
22	Troughing Impact Idler	Roller size –O/D – 152.4mm x 430mm long x 25mm shaft	60

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		Long – 1510mm & Hole centre – 1450mm	
23	Troughing Training Idler	Supporting base of channel – 100mm x 50mm with vertical guide roller Long – 1510mm & Hole centre – 1450mm	10
24	R.D. Return Idler	Roller size – 140mm OD x 150mm width hole center 1350mm x 25mm shaft with two ends hanger bracket and no. of rubber disc – 4	60

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TECHNICAL SPECIFICATION OF IDLERS

Sl.No	Type of Idler	Troughing Idler	Impact Idler	Troughing Training Idler	R.D. Return Idler
1	Nominal O.D. of Roll (mm)	139.7	-	139.7	-
2	Thickness of Roll (mm)	5.4	5.4	5.4	5.4
3	Material of roll	E.R.W tube as per IS:1239			
4	Shaft diameter (mm)	25 (C-40 IS-1570)			
5	Bearing type	Deep Groove ball bearing make SKF/FAG/TATA 6305			
6	Dynamic load rating of Bearing	1100Kgf	1100Kgf	1100Kgf	1100Kgf
7	Roll Mounting	Drop in slot type			
8	Lubrication	Lubricated for life (Servo Gem EP-2)			
9	O.D of rubber disc for impact idler	-	152	-	152
10	O.D. of Steel tube for impact idler	-	89	-	60
11	Troughing angle (Deg)	30°	30°	30°	-
12	Type of frame	Channel base	Channel base	Channel base	Channel base
13	Sealing arrangement	Roller should be grease packed and sealed for life. Roller should be provided with a multilubrinth non contract type seal to keep dust and moisture away from the roller bearing. Water proof weather cap to be provided at the roller end to prevent water entering. Roller should be provided with back seal to prevent grease entering inside the roller			
14	Paint	All roller and hanger / frames should be painted with one coat of zinc chromate primer and tow coats of smoke grey enamel paint of Shalimar / Berger etc.			

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FOR TURAMDIH

Sl.No.	Material Description	Belt Width	Tentative Qty.
1	Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/52, Rev-2	1000 MM	250
2	Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/52, Rev-2	1200 MM	120
3	Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/52, Rev-2	1400 MM	60
4	Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/52, Rev-2	1600 MM	135
5	Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/64, Rev-6	1000 MM	80
6	Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/64, Rev-6	1200 MM	30
7	Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/64, Rev-6	1400 MM	6
8	Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/64, Rev-6	1600 MM	20
9	Self Aligning Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/57, Rev-1	1000 MM	20
10	Self Aligning Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/57, Rev-1	1200 MM	12
11	Self Aligning Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/57, Rev-1	1400 MM	15
12	Self Aligning Return Idler as per drg. No. UCT-I/MECH/CONV./IDLER/57, Rev-1	1600 MM	5
13	Self Aligning Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/54, Rev-2	1000 MM	30
14	Self Aligning Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/54, Rev-2	1200 MM	20
15	Self Aligning Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/54, Rev-2	1400 MM	20
16	Self Aligning Troughing Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/54, Rev-2	1600 MM	4
17	Impact Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/53, Rev-3	1000 MM	100
18	Impact Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/53, Rev-3	1200 MM	50
19	Impact Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/53, Rev-3	1400 MM	15
20	Impact Idlers as per drg. No. UCT-I/MECH/CONV./IDLER/53A, Rev-2	1600 MM	20

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Sl.No.	Material Description	Belt Width	Tentative Qty.
21	Roller for Impact Idler as per drg. No. UCT-I/MECH/CONV./IDLER/183, Rev-0	1200 MM	40
22	Roller for Impact Idler as per drg. No. UCT-I/MECH/CONV./IDLER/183, Rev-0	1400 MM	20
23	Roller for Impact Idler as per drg. No. UCT-I/MECH/CONV./IDLER/183, Rev-0	1600 MM	30