

VOLUME-V

Data Sheet -17: Technical Data Sheets for Hydro-Mechanical Plant & Machinery

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TDS : 1

Item Description : Radial Gate with Hydraulic Hoists

A. GATE

1. Technical Particulars

- a. Gate size (width x height) :
- b. Design head (FRL-Sill) :
- c. Type of gate :
- d. Number of gates :
- e. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Reference IS codes		
iii	Radius of skin plate		
iv	Type of trunnion anchorages		
v	Permissible stresses & Conditions		
vi	Type of dogging arrangement & Location		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Skin plate		
ii	Trunnion hub		
iii	Trunnion bush (self-lubricating)		
iv	Trunnion pin		

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
v	Rubber seals (Teflon cladded/uncladded)		
vi	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Maximum width (m)		

4. Weight Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data (in MT)
i	1 st stage Embedded Parts		
ii	2 nd stage Embedded Parts		
iii	Gate Parts		
iv	Hoist supporting structure & Hoist		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/page no.)

5. Deviations, if any may be specified:

B. HYDRAULIC HOIST

1. Technical Particulars

- a. Hoist capacity :
- b. Type of hoist :
- c. Manufacturer :
- d. Number of hoist :
- e. Reference codes :
- f. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
B 1.1	Hydraulic Cylinder		
i	Name of the manufacturer and address		
ii	Stroke (working) in mm		
iii	Reserve stroke Piston end (in mm) Stem rod end (in mm)		
iv	Design pressure		
B 1.2	Hoist Cylinder mounting & connecting arrangement		
B 1.3	Hydraulic Power pack assembly		
i	Name of manufacturer		
ii	Type of the oil pump		
iii	Maximum working pressure at pump		
iv	Type of motor and make		

B 1.4	Electrical controls		
i	Name of the manufacturer		
ii	Type of gate position indicator		
iii	Transmitter & Limit switches Type & Make		

2. Specification of Material/ Grade

Sl. No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Oil tank		
ii	Hydraulic oil (viscosity)		
iii	Piping & fittings		
iv	Painting system (Primer, Finish		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/

5. Deviations if any may be specified:

TDS : 2

Item Description : Flap Radial Gate with Hydraulic Hoists

A. GATE

1. Technical Particulars

- a. Gate size (width x height) :
- b. Design head (FRL-Sill) :
- c. Type of gate :
- d. Number of gates :
- e. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Reference IS codes		
iii	Radius of skin plate		
iv	Type of trunnion anchorages		
v	Permissible stresses & Conditions		
vi	Type of dogging arrangement & Location		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Skin plate		

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
v	Rubber seals (Teflon cladded/uncladded)		
vi	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Maximum width (m)		

4. Weight Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data (in MT)
i	Gate Parts		
li	Hoist supporting structure & Hoist		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/page no.)

5. Deviations, if any may be specified:

B. HYDRAULIC HOIST

1. Technical Particulars

- a. Hoist capacity :
- b. Type of hoist :
- c. Manufacturer :
- d. Number of hoist :
- e. Reference codes :
- f. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
B 1.1	Hydraulic Cylinder		
i	Name of the manufacturer and address		
ii	Stroke (working) in mm		
iii	Reserve stroke Piston end (in mm) Stem rod end (in mm)		
iv	Design pressure		
B 1.2	Hoist Cylinder mounting & connecting arrangement		
B 1.3	Hydraulic Power pack assembly		
i	Name of manufacturer		
ii	Type of the oil pump		
iii	Maximum working pressure at pump		
iv	Type of motor and make		
B 1.4	Electrical controls		
i	Name of the manufacturer		
ii	Type of gate position indicator		
iii	Transmitter & Limit switches Type & Make		

2. Specification of Material/ Grade

Sl. No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Oil tank		
ii	Hydraulic oil (viscosity)		
iii	Piping & fittings		
iv	Painting system (Primer, Finish		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/

5. Deviations if any may be specified:

TDS : 3

Description : STOPLOGS AND GANTRY CRANE WITH LIFTING BEAM

A. GATE

1. Technical Particulars

- a. Clear opening size (width x height) :
- b. Number of units:
- c. Design head (MWL-Sill) :
- d. Skin plate (u/s or d/s) :
- e. Type of side sealing (u/s or d/s) :
- f. Operating condition :
- g. Particulars

S.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
1	Name of the manufacturer and address		
2	Reference IS codes		
3	Permissible Stresses and Conditions		
4	Type of latching arrangement & location		
5	Storage pit & location		

2. Specification of Material/ Grade

S.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
1	Skin plate		
2	Rubber seals (Teflon cladde/ uncladde)		
3	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i.	Heaviest Part Name of the part / weight		

ii.	Longest Part Name of the part / dimensions (LxWxD)		
iii.	Width (m)		

4. Weight Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data (in MT)
i.	1 st stage Embedded Parts		
ii.	2 nd stage Embedded Parts		
iii.	Gate Parts		
iv.	Gantry Crane		

5. Errors/discrepancies, if any in technical specifications/ drawings (indicate clause no/ page no.)

6. Deviations if any may be specified:

B. GANTRY CRANE

1. Technical Particulars

- a. Rated capacity :
- b. Reference code :
- c. C/C distance between rails :
- d. Minimum headroom over the deck :
- e. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Total lift from sill (in m)		
iii	Speed		
	LT travel		
	Hoisting		
iv	Type of electric controls		
v	Type of cable reeling drum		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Rope drum		
ii	Gear wheels		
iii	Shafts		
iv	Pulleys		
v	Type of motor & make		
vi	Type of Brake & make		
vii	Type of limit switches & make		
viii	Wire rope (6x36, 6x 37)		
ix	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i.	Heaviest Part Name of the part / weight		
ii.	Longest Part Name of the part / dimensions (LxWxD)		
iii.	Width (m)		

4. Errors/discrepancies, if any in technical specifications/ drawings (indicate clause no/ page no.)

5. Deviations if any may be specified:

TDS: 4

Description : INTAKE TRASH RACKS

A. TRASH RACKS

1. Technical Particulars

- a. Clear opening size (width x height) :
- b. Number of panels :
- c. Type of trash rack :
- d. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and Address		
ii	Reference IS codes		
iii	Clear spacing, bar size and minimum thickness		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Bars & beam members		
ii	Painting system (Primer, Finish paint) & Make		

3. Weight Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data (in MT)
i	1 st stage Embedded Parts		
ii	2 nd stage Embedded Parts		
iii	Trash racks		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

TDS : 5

Description : INTAKE SERVICE GATES WITH ROPE DRUM HOISTS

A. GATE

1. Technical Particulars

- a. Clear opening size (width x height) :
- b. Number of gate :
- c. Design head (FRL-Sill) :
- d. Type of sealing (u/s or d/s) :
- e. Operating condition :
- f. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Reference IS codes		
iii	Type of wheel arrangement		
iv	Permissible Stresses and Condition		
v	Type of dogging arrangement & Location		
vi	Ballast considered		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during)	Tentative Data
i	Skin plate		
ii	Wheel		
iii	Bearing		
iv	Axle		
v	Rubber seals (Teflon cladde/ uncladde)		
vi	Painting system (Primer, Finish paint) & Make		
vii	Ballast (if considered)		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

4. Weight Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data (in MT)
i	1 st stage Embedded Parts		
ii	2 nd stage Embedded Parts		
iii	Gate Parts		
iv	Hoist supporting structure & host		

5. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

6. Deviations if any may be specified:

B. ROPE DRUM HOIST

1. Technical Particulars

a. Hoist capacity :

b. Reference code :

c. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Total lift (in m)		
iii	Height of steel trestles		
iv	Type of gate position indicator		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Rope drum		
ii	Gear wheels		
iii	Shafts		
iv	Pulleys		
v	Type of motor & make		
vi	Type of Brake & make		
vii	Type of limit switches & make		
viii	Wire rope (6x36, 6x 37)		
ix	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

5. Deviations if any may be specified:

TDS : 6

Description : INTAKE EMERGENCY GATES WITH ROPE DRUM HOISTS

A. GATE

1. Technical Particulars

- a. Clear opening size (width x height) :
- b. Number of gate :
- c. Design head (FRL – Sill) :
- d. Type of sealing (u/s or d/s) :
- e. Operating condition :

2. Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
li	Reference IS codes		
iii	Type of wheel arrangement		
lv	Permissible Stresses and Condition		
v	Type of dogging arrangement & Location		
vi	Ballast considered		

3. Specification of Material /Grade

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Skin plate		
ii.	Rubber seals (Teflon cladde/ uncladde)		
iii.	Painting system (Primer, Finish paint) & make		

4. Transportation

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		

ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

5. Weight Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	1 st stage Embedded Parts		
ii	2 nd stage Embedded Parts		
iii	Gate Parts		
iv	Hoist supporting structure & hoist		

6. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

7. Deviations if any may be specified:

B. ROPE DRUM HOIST

1. Technical Particulars

- a. Hoist capacity :
- b. Reference code :
- c. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Total lift (in m)		
iii	Height of steel trestles		
iv	Type of gate position indicator		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Rope drum		
ii	Gear wheels		
iii	Shafts		
iv	Pulleys		
v	Type of motor & make		
vi	Type of Brake & make		
vii	Type of limit switches & make		
viii	Wire rope (6x36, 6x 37)		
ix	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
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i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		

4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

5. Deviations if any may be specified:

TDS: 7

Description : UNDERSLUICE SERVICE GATES WITH ROPE DRUM HOISTS

A. GATE

1. Technical Particulars

- a. Clear opening size (width x height)
- b. Number of gate
- c. Design head (FRL – Sill)
- d. Type of sealing (u/s or d/s)
- e. Operating condition :

2. Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and adress		
li	Reference IS codes		
iii	Type of wheel arrangement		
Iv	Permissible Stresses and Condition		
v	Type of dogging arrangement & location		
vi	Ballast considered		

3. Specification of Material /Grade

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i.	Skin plate		
ii.	Rubber seals (Teflon cladded/ uncladded)		
iii.	Painting system (Primer, Finish paint) & make		

4. Transportation

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		

li	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

5. Weight Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	1 st stage Embedded Parts		
li	2 nd stage Embedded Parts		
iii	Gate Parts		
iv	Hoist supporting structure & hoist		

6. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

7. Deviations if any may be specified:

B. ROPE DRUM HOIST

1. Technical Particulars

- a. Hoist capacity :
- b. Reference code :

2. Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
li	Total lift (in m)		
iii	Height of steel trestles		
iv	Type of gate position indicator		

3. Specification of Material /Grade

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Rope drum		
li	Gear wheels		
iii	Shafts		
iv	Pullyes		
v	Type of motor and make		
vi	Type of brake and make		
vii	Type of limit switches and make		
viii	Wire rope (6x36, 6x 37)		
ix	Painting system (Primer, Finish paint) & make		

4. Transportation

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
li	Longest Part Name of the part/ dimensions (l x w x d)		

5. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

6. Deviations if any may be specified:

TDS : 8

Description : UNDERSLUICE EMERGRNCY STOPLOGS WITH MONORAIL CRANE

A. GATE

1. Technical Particulars

- a. Clear opening size (width x height) :
- b. Number of gate :
- c. Design head (FRL – Sill) :
- d. Type of sealing (u/s or d/s) :
- e. Operating condition :

2. Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and Address		
li	Reference IS codes		
iii	Type of Sliding arrangement		
Iv	Permissible Stresses and Condition		
v	Type of dogging arrangement & Location		
vi	Ballast considered		

3. Specification of Material /Grade

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Skin plate		
li	Wheel		
iii	Bearing		
Iv	Axle		
v	Rubber seals (Teflon cladde /Uncladde)		
vi	Painting system (Primer, Finish paint) & make		
vii	Ballast (if considered)		

3. Transportation

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
li	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

4. Weight Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	1 st stage Embedded Parts		
li	2 nd stage Embedded Parts		
iii	Gate Parts		
iv	Hoist supporting structure & hoist		

6. **Errors/discrepancies, if any in technical specification/ drawings** (indicate clause no/ page no.)
 7. **Deviations if any may be specified**

B. MONORAIL HOIST

1. Technical Particulars

- a. Hoist capacity :
- b. Reference code :
- c. Particulars

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
ii	Total lift (in m)		
iii	Height of steel trestles		
iv	Type of gate position indicator		

2. Specification of Material/ Grade

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Rope drum		
ii	Gear wheels		
iii	Shafts		
iv	Pulleys		
v	Type of motor & make		
vi	Type of Brake & make		
vii	Type of limit switches & make		
viii	Wire rope (6x36, 6x 37)		
ix	Painting system (Primer, Finish paint) & Make		

3. Transportation

Sl.No	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		

ii	Longest Part Name of the part/ dimensions (l x w x d)		
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4. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

5. Deviations if any may be specified:

TDS : 9

Description : DRAFT TUBE GATE WITH ROPE DRUM HOIST

A. GATE

1. Technical Particulars

- a. Clear opening size (width x height) :
- b. Number of gate :
- c. Design head (FRL – Sill) :
- d. Type of sealing (u/s or d/s) :
- e. Operating condition :

2. Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and adress		
li	Reference IS codes		
iii	Type of wheel arrangement		
lv	Permissible Stresses and Condition		
v	Type of dogging arrangement & location		
vi	Ballast considered		

3. Specification of Material /Grade

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Skin plate		
li	Wheel		
iii	Bearing		
lv	Axle		
v	Rubber seals (Teflon cladded /Uncladded)		
vi	Painting system (Primer, Finish paint) & make		
vii	Ballast (if considered)		

4. Transportation

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
ii	Longest Part Name of the part/ dimensions (l x w x d)		
iii	Width (m)		

5. Weight Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	1 st stage Embedded Parts		
ii	2 nd stage Embedded Parts		
iii	Gate Parts		
iv	Hoist supporting structure & hoist		

6. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)

7. Deviations if any may be specified:

B. ROPE DRUM HOIST

1. Technical Particulars

- a. Hoist capacity :
- b. Reference code :

2. Particulars

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Name of the manufacturer and address		
li	Total lift (in m)		
iii	Height of steel trestles		
iv	Type of gate position indicator		

3. Specification of Material /Grade

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Rope drum		
li	Gear wheels		
iii	Shafts		
iv	Pulleys		
v	Type of motor and make		
vi	Type of brake and make		
vii	Type of limit switches and make		
viii	Wire rope (6x36, 6x 37)		
ix	Painting system (Primer, Finish paint) & make		

4. Transportation

Sl.No.	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
i	Heaviest Part Name of the part/ weight		
li	Longest Part Name of the part/ dimensions (l x w x d)		

5. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)
6. Deviations if any may be specified

TDS-10

Description : TRASH RACK CLEANING MACHINE (TRCM)

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
1.1	TRCM		
	Type of Trash Rack Cleaning Machine		
	Manufacturer		
	Width of Raking Bucket		
	Trash Handling Capacity		
	Capacity of Hydraulic Grappler		
	Type of Hydraulic Grappler		
	Operating Radius/ Outreach of Boom/ Grappler		
	Hoisting/ Lowering Speed of Bucket		
	Hoisting/ Lowering Speed of Grappler		
	LT Speed of TRCM		
	Electric Motors • Type • Make		
1.2	Details of Prime mover operated self-unloading trash disposal vehicle (Tipper type)		
	Type		
	Make		
	Capacity of the Trash Disposal Vehicle		
1.3	Brief description about how operational requirements are covered & GA Drawing describing all major components especially:		

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
	- Rake Machine - Rake Head - Combing detail - Boom & Grapple Arrangement - Trash Disposal Vehicle		
	Improvement in Specifications / Configuration, if any		

2. MATERIALS

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
2.1	TRCM		
	Raking Bucket Teeth		
	Rail Track		
2.2	Painting		
	Make/ Manufacturer		

3. DIMENSIONS

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
3.1	Heaviest part to be transported		
	Name of part		
	Weight		

	Length		
	Width		
	Height		
3.2	Longest part to be transported		
	Name of Part		
	Weight		
	Length		
	Width		
	Height		

4. **Errors/discrepancies, if any in technical specification/ drawings** (indicate clause no/ page no.)
5. **Deviations if any may be specified**

TDS:11

Description: INSTRUMENTATION AND REMOTE CONTROL SYSTEM

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
1	Remote Control System		
	Manufacturer		
	PLCs • Model • Make		
	Network Components • Type • Make		
2	Water Level Sensors (Microwave type)		
	Make		
	Range of Sensor		
	Accuracy		
3	Water Level Sensors (for balance head of gates)		
	Type		
	Make		
	Range of sensor		
	Accuracy		
4	Trash Screen Head Loss Measuring Instrument (Differential Pressure Type)		
	Make		
	Range of instrument		
	Accuracy		

TECHNICAL DATA SHEET

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
	Alarm System		
5	Large Screen LED Display		
	Make		
	Size of Display		
	Specifications		
6	Operator Workstations		
	Make		
	Specifications		
7	UPS		
	Make		
	Specifications		
8	Main Distribution Board & Feeder Pillars		
	Air Circuit Breakers - Type - Make		
	MCCBs - Type - Make		

2. DIMENSIONS

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
3.1	Heaviest part to be transported		

	Name of part		
	Weight		
	Length		
	Width		
	Height		
3.2	Longest part to be transported		
	Name of Part		
	Weight		
	Length		
	Width		
	Height		

4. **Errors/discrepancies, if any in technical specification/ drawings** (indicate clause no/ page no.)
5. **Deviations if any may be specified**

TDS:12

Description: DIESEL GENERATING SET

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
1	Diesel Generating Set		
	Manufacturer/ Integrator		
	Rated output at site		
	Output current		
	Output voltage		
	Frequency		
	Engine • Make • Specification		
	• Make • Specification		
2.2	Errors/discrepancies/deficiencies, if any, in technical specifications and drawings		

2. DIMENSIONS

Item	Description	Unit	Data
2.1	Heaviest part to be transported		
	Name of part		
	Weight		
	Length		

3. Errors/discrepancies, if any in technical specification/ drawings (indicate clause no/ page no.)
4. Deviations if any may be specified

TDS-13

Description: Penstock Steel Liner

1. To be manufactured by :
2. Reference Code :
3. Description :

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
3.1	Penstocks Steel Liner		
	No. of Penstocks		
	Type		
	Diameter of Penstock		
	Design Head		
	Water Hammer Head		
	Detail of Specials		

4. MATERIALS

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
4.1	Penstock		
	Material of Penstock		
	Welding Electrodes		
	Bond Breaking Material - Type - Make		
4.2	Material of Specials		
4.3	Painting		
	Make/ Manufacturer		

5. DIMENSIONS

Item	Description	Guaranteed Data (Integral part of Contract during execution)	Tentative Data
5.1	Weight		
	Penstocks		
5.2	Heaviest part to be transported		
	Name of part		
	Weight		
	Length		
	Width		
	Height		
4.3	Longest part to be transported		
	Name of part		
	Weight		
	Length		
	Width		
	Height		

1. **Errors/discrepancies, if any in technical specification/ drawings** (indicate clause no/ page no.)
2. **Deviations if any may be specified**