OFFICE OF THE ENGINEER-IN-CHIEF
WATER RESOURCES DEPARTMENT
CHHATTISGARAH, RAIPUR

Memo No. 341/SOR-2010/BODHI/2010 **Raipur Dated: /01/2016**

To,

1. **All Chief Engineer**
2. **All Superintending Engineers**
3. **All Executive Engineer**

Water Resources Department, Chhattisgarh

Sub : Addendum No. 04 to Schedule of Rates (SOR) for Water Resources Works in force from 01-08-2010.

The Following Addendum / Amendment is issued with immediate effect.

ADDENDUM : 04

CHAPTER 26 – SUPPLY AND ERECTION OF GATES

On Page No. 219, New Item No. 2609, 2610 & 2611 may be added as under :-

Item No.	Item	Unit	Rate	Remark
2609	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wall plates, seal seats, first stage anchors, anchor girders, anchor bars, trunnion supports etc., with all accessories **for outflow regulating automatic gates for barrage/escape** including cost of all materials, machinery, labour, cutting , aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with **lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for others materials.** **Note :** **1.** Weight of 1 set embedded parts in tonnes = $0.046x\ (L^2 xHxh)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL- Sill level + 0.20m (h) is head of water above sill of gate in m=FSL–Sill level **2.** Quantity of structural steel = 94.0 % of computed weight for 1 set.	Tonne	169400.00	
2610	Design, fabrication, supply, erection, testing and commissioning of **automatic outflow regulating gate and fulcrum assembly** consisting of skin plate, stiffeners, horizontal girders, trunnion assemblies, gate bracket, base plate, rolling surface assembly, link brackets, link assembly, rubber seals, seal clamps etc., with all accessories for **barrage / escape** including cost of all materials , machinery, labour, cutting, aligning, anchoring. Welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with **lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for others materials.**	tonne	136200.00	

	Note : 1. Weight of gate and fulcrum assembly in tonnes = 0.1325 x $(L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL- Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL – Sill level **2.** Quantity of structural steel= 94.2 % of computed weight for 1 gate.			
2611	Design, fabrication, supply, erection, testing and commissioning of **hoisting cum damping** system consisting of low level horiziontal lever link, low level long actuating lever, high level vertical lever link, high level short actuating lever, high level hoising bracket, axle for lever system, friction shoes, supporting box for shoes, rack assembly, ratchet pawl, supporting structure, bracket plate etc., with all accessories for **outflow regulating automatic gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with **lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for others materials.** **Note :** 1. Weight of hoisting cum damping system in tonnes = 0.0695$(L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL- Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL – Sill level **2.** Quantity of structural steel = 94.0 % of computed weight for gate.	tonne	187500.00	

Encl : Nil

ENGINEER-IN-CHIEF
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AMENDMENT : 08

CHAPTER 26 – SUPPLY AND ERECTION OF GATES

On Page No. 215, Item No. 2602 (d) may be amended as under :-

Item No.	Item	Unit	Rate	Remark
2602 (d)	Design/ Drawing, fabrication, supply and erection of automatic openable vertical Axis swing/ butterfly gate with water tight rubber seals, skin pate stiffeners, sill beam, hinge brackets rotating gate leafs of size up to 20 sqm. with structural steel frame, bushing of aluminum bronze, trunnion hubs friction dampers with stainless steel guide etc. duly painted as per SOR Item No. 1854 complete, **excluding hydraulic jack for closure of gate.**	**Tonne**	**155506.00**	

Encl : Nil

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WATER RESOURCES DEPARTMENT
CHHATTISGARAH, RAIPUR

Endt. No. 341/SOR-2010/BODHI/2010 / 520 Raipur Dated: 13 /01/2016

Copy is Forwarded to.

1. Secretary, Govt. of Chhattisgarh, Water Resources Department, Mantralaya, naya Raipur.
2. The Engineer-in-Chief, PWD Sirpur Bhawan/PHED Neer Bhawan Raipur.
3. The Director, Rate & Cost, CWC, Sewa Bhawan R.K. Puram, New Delhi.
4. The Accountant General, Chhattisgarh, near Vidhan Sabha Raipur.
5. The Chief Technical Examiner, Computer Bhawan in campus of office of the Executive Engineer, MRP, Phase-II Works Division, Raipur.
6. The Executive Engineer (Civil) CSEB, Raipur.
7. The Chief Engineer/Superintending Engineer/Executive Engineer ----------
8. The Executive Engineer MIS, Data Center Raipur.

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