# OFFICE OF THE DIRECTOR OF HORTICULTURE & SECRETARY ODISHA HORTICULTURE DEVELOPMENT SOCIETY, BHUBANESWAR.

То	No.2 MA (H <sub>1</sub> ) 184/2012	1/71	/Hort., date	4.1.13
	The Deputy Director of Hornard Asst. Director of Hornard			
Sub.:	Guidelines for excavation Mission.	of Farm Ponds	under National H	lorticulture
Sir,				
the pr	Enclosed, please find he Ponds under National Ho ogramme following the gr nds placed with you unde	orticulture Missio uidelines. Payme	n. You are requent of subsidy ca	jested to execute
Enclos	sures: As above		Yours f	aithfully
Memo	No. 1/72 /H	ort., Date	) · 1 · 1 2	f Horticulture & tary, OHDS
Directo	Copy forwarded to the Adorate of Agriculture & Food eary action.	d Production, Od	isha for informa	tion and
Memo	Copy submitted to the Prin	ncipal Secretary I	to the Govt Ag	Horticulture & ary, OHDS
Depart	ment for favour of kind in	formation and ne	ecessary action.	

Director of Horticulture & Secretary, OHDS

4/11/9

#### ABSTRACT OF ESTIMATE FOR FARM POND WITH POLYETHELENE LINING UNDER N.H.M

No Item of Work	Qty	Unit	Rate		Amount(s)
Excavation of any approved type of soil in approved borrow area by mechanical means and unloading the soil within initial lead of 1 Km on properly prepared and scientifically approved surface including spreading and levelling the earth in 22.5 cm layers to make ready for watering and compaction in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road and borrow area etc. complete as per the direction of engineer-in-charge 9measurement of the fill to be taken on the finished compacted section under OMC condition.	894.00	Cum	52.61		47030.99
2 Ramming and rolling of earthwork with light HRR in layers not exceeding 0.3M depth	894.00	Cum	7.42	Cum	6631.58
3 Fine dressing at top of Bund	191.08	Sqm	168	100 Sqm	321.01
Fine dressing and turfing with initial lead of 50M and initial	729.48	Sqm	4.94		3603.02
4 lift of 1.5m as per direction of engineer in charge					
5 Spreading sand at bottom of pond	29.40	cum	202.36		5949.53
6 Cost of supply of 500 micron thick virgin polyethlene sheet	670.45	Sqm	90	1 sqm	60340.46
Laying and fixing of polyethelene sheet in position with	670.45	Sqm	L.s	L.s	9660-00
7 joining including trench cutting, cost of jointing, cost of adhesives/cost thermal stitching complete as per direction of Engineer in charge	Ñ				
8 Cost of masonry sluice	1	No	6288.20	130164.79	6288.20
			Total		139824.79
Contigencies					175.00
			G.total		140000
		1 1 1 1 1 1 1 1 1			

(Rupees one Lakh forty Thousand only

Programed by

counterengined

Assistant Agril. Engineer Directorate of Hort. Bhubaneswar-15, (Orisha)

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Director of Horticulture Orissa, Bhubaneswar



Тор	20 Mx	20 M=	0.1	Ac		0.15
Cutting Slope	1	20 101-	0.1	AC		0.15
Depth of Cut	3 MX					
Bottom size of pond	14 M x	14 M=				
Berm	0.5	74 101-				
Top Width of Bund	1.7					
Bund Slope	1.5					
Bond Height	1.8					
Bond Inner to inner	21 x	21				
Bond Base outer to outer	4 35.2	35.2				
Bond bottom width	7.1	20000000				
Area of Pond including Bund	1239.04 Sam=	0.3098 Ac				
CS Area of Bund around	1.7 +	7.1 1/2 x	1.8	7.92	Sqm	
Length of Bund=2X	28.1 +	28.1 )=	112.4	1.32	8 60	
Volume of Bund	112.4 X	7.92 =	890.21	Cum		
<ol> <li>Volume of Excavation</li> </ol>		18000	20			
254222-7547-187-184-194-1804-1744-1740-1				Х	20	M
DETAILED ESTIMATE FOR	FARM POND V	VITH POLYETH	LENE	20	мх	20 M
	LININ	IG OF SIZE				

1 Excavation, loading, unloading and carriage by Mechanical means of all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts ncluding trimming of slopes and bed to design section and depositing the excavated materials away from work site as per the specification and direction of Engineer in Charge within an initial lead of 1 Km

Size of pond at Top	20	MX	20	M=	400	Sqm	
Cutting Slope	1	H:	1	V			
Size of pond atBottom	14	MX	14	M=	196	Sam	
Volume of Cut={	400	+	196	)/2X	3		894.00 Cum
Volume of Earthwork				=	894.00	Cum	astas Cum
excavated= Volume of Bund							

2 Ramming and rolling of earthwork with light HRR in layers not exceeding 0.3M depth

3 Spreading sand in pond 14 M x 14 M x 0.15 29.4 bottom Cum

4 Fine dressing and turfing with initial lead of 50M and initial lift of 1.5m as per direction of engineer in charge

Bund Slope length 3.24 M  $_{2X}$  112.4 M  $_{x}$  3.24 = 729.48 Sqm 5 Fine dressing at top of Bund 112.4 M  $_{x}$  1.70 = 191.08 Sqm

6 Cost of Polyethelene linning

8mi

894.00

Cutting slope Length				
Slopes =	20 +	14 1/2 //	4.24 M	
2 x(		14 )/2 X	4.24 =	144.25 Sqm
2 x (	20 +	14 )/2 X	4.24 =	<sup>144,25</sup> Sqm
Bottom	14 MX	21210101		vqiii
Berms	21 +	14 M x	=	196.00 Sqm
2 x(	21 +	20 )/2M	0.50 =	20.50 Sqm
2 x (	21 +	20 )/2M	0.50 =	20.50 Sqm
Insertion into Bund		×	37775	Sqm
2*(	21 + 2	21 )/2M	1.00 =	84.00 Sqm
	X	×		- Sqm
Add for overlapping	10 %			609.50 Sqm
Strong Could specified at To 9	10 %			60.95 Sqm
				670.45 sam

## **DETAILED ESTIMATE FOR SLUICE**

earthwork Excavation for foundation of sluice Headwall

1 Upstram Downstream	1	×	0.95 x 1.05 x	0.90 = 0.90 =	0.86 Cum 0.95 Cum
<ol> <li>Spreading Sand in foundation including ramming and watering</li> </ol>	1	×	0.95 x	Total 0.15 =	1.80 <u>Cum@</u>
3 C.C 1:4:8 using 4 Cm size H.G.Metal	1		1.05	0.15 Total	0.14 Cum 0.16 Cum 0.30 Cum
4 Laterite stone masonry in C.M. 1:6	1 X 1 x		0.95 x 0.15 x	0.15 = 0.15 = Total	0.14 Cum 0.02 Cum 0.17 Cum
Upstream Downstream		1 X 1 X	0.9 x 0.9 x	0.00 -	0.54 Cum
0	Upstram	1 X	0.7 x		otal 1.08 Cum
	Downstre	1 X	0.8 x	0.80 = To	0.56 Cum 0.64 Cum otal 1.20 Cum



#### 5 16 mm thick cement plastering

	A	100
Len	CM	3 . 6
	S.IVI	1:0

Ups	stream	1 X	0.8	=	0.80 Sqm
Тор	)	1 ×	0.5		0.50 Sqm
	sides = $2 \times ($	0.7 +	0.5) x	0.80 =	1.92 Sqm
Dow	nstram	1 X	0.8	=	0.80 Sqm
	Тор	1 ×	0.5		0.50 Sqm
	sides = 2 x (	0.8 +	0.5) x	0.80 =	2.08 Sqm
				Total	6.60 Sqm
Laying and fixing of Hu	me pipe 6" dia with co	ollars			
	Lenth	6 M	Or		3.00 Nos
Cost of Collars					2.00 Nos
Labor charges		6 M		L.S Rs	30.00 Per m

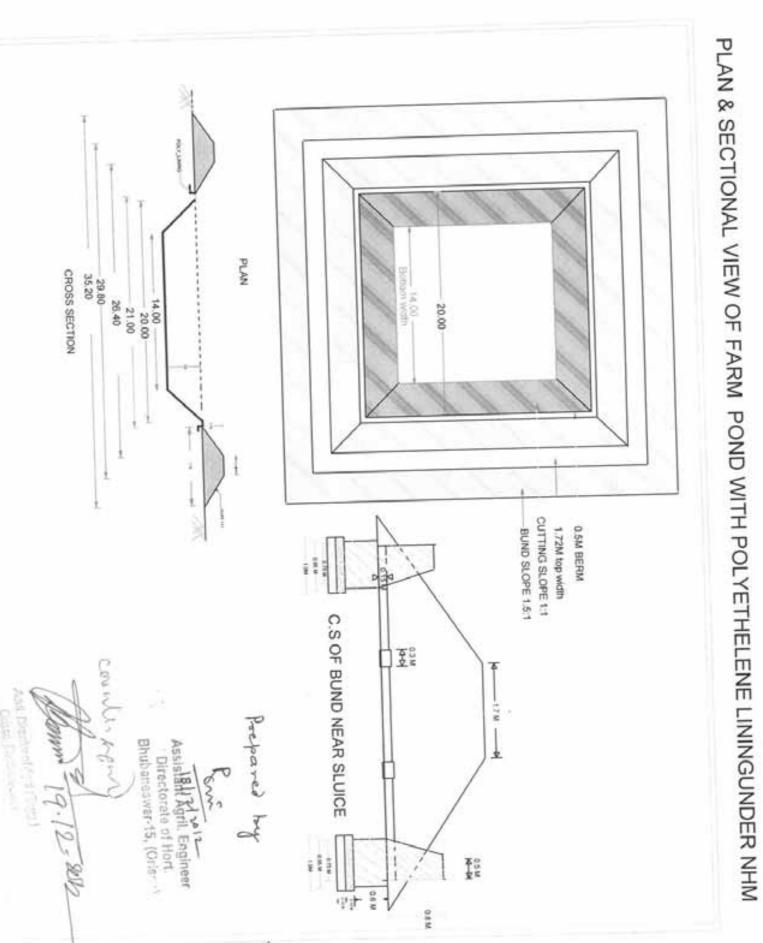
Prepared by

Assistant Agril. Engineer
Directorate of Hort.
Bhubaneswar-15, (Orisin)

Sperman 12.12.2012

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Size of pond	20m x 20m X3n	1	
Тор	20m x 20m	Depth of Cut	1.5m
Bottom size of pond	14m x 14m	Depth of Cut	1.5m
Top Berm	0.5 m		
Slope	1:01		
Top Width of Bund	1.8 m (1:1.5)		
Bund Height	1.8 m		10.53
Bund Slope	3.24m		
Bund Inner to inner	21m x 21m		3.55
Bund Base outer to outer	35.4mX35.4m		
Bund bottom width	7.2 m		
Area of Pond including Bund	35.4mX35.4m	1253 sqm	0.31 Ac
CS Area of Bund around Pond	(1.8 m +7.2 m)/2x1.8 m	= 8.1	sqm
Length of Bund	4X28.2	= 112.8	rmt
Volume of Bund	112.8 X 8.1	= 913.68	cum
Volume of Excavation		= 1031.25	cum

Assistant Agril. Engineer
Directorate of Hori
Bhubaneswar-15, (Orises)

SI.	Item of work	Di	mension	1	Quantity	Unit	Rate	Amount
Vo.		L	В	н			(Rs)	(Rs)
1	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.	L.S.						1000
1	Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.							
	Step I	20	20	1	400	cum	86.89	34756
	Step II	18.5	18.5	0.5	171.125	cum	86.89	14869
	Step II with 1.5m extralift	18.5	18.5	0.5	171.125	cum	93.58	16014
	Bottom with 1.5m extra lift	17	17	1	289	cum	93.58	27045
	Total				1031.25	cum		92684
2	Ramming and rolling of earthwork with light HRR	Quar	ntity as a	bove	1031.25	cum	7.42	7652
3	Fine dressing and turfing w 50m over the initial lead of 1.5 m over initial lift of 1. 2x bund slope length x bur 112.8	f 50 m a 5m	nd extra	lift of	737.34	sqm	7.24	5338

#### **DETAILED ESTIMATE FOR SLUICE**

1	Earthworkin excavation for Headwall	, round	ration or	3,0,00					
	Upstream	1	X	0.95	×	0.90	=	0.86	Cum
	Downstream	1	X	1.05	x	0.90	=	0.95	Cum
							Total	1.80	Cum
2		@	Rs.	86.89		1.80	cum	156.40	
	Spreading Sand in foundation including ramming and watering	1	X	0.95	×	0.15	=	0.14	Cum
		1		1.05		0.15		0.16	Cum
						Total		0.30	Cum
		@	Rs.	206.92		0.30	cum	62.08	
3	C.C 1:4:8 using 4 Cm size H.G.Metal								
		1	X	0.95	×	0.15	=	0.14	Cum
		1	×	0.15	x	0.15	=	0.02	Cum
			1			Total		0.17	Cum
		@	Rs.	2981.33		0.17	7 =	506.83	

Smi

	G Total						1.11.4	wenty thou		_
8	Expr.on misc. and other unforeseen items	al						Rs	1393.	
	Labor charges		6	IVI	L.3 (13	30.30				
	Cost of Collars			M	L.S Rs	50.00	Per m	Per m	300	
	Len	gvn	8	141		3.00	Nos	Nos	450	
6	Laying and fixing of Hume pipe	6" d	ia w	ith collars M		4.00	Nos	Nos	4000	
			Rs.			-				
			D.	110.38		6.60	sqm	Total	728.50	
		des	2	×	(0.8+0.5)	×	0.8	=	6.60	S
		op	1	×	0.5		1272.11		1.92	S
	Downstr		1	×	0.8			-	0.50	S
5		les	2	×	(0.7+0.5)	×	0.8	-	0.80	S
		ор	1	×	0.5		832	-	1.92	S
	Upstrea		1	×	0.8			5 -	0.50	Si
	16 mm thick cement plastering	n CN	A 1:6	5					0.80	S
		-	Rs.	2512.95		2.28	cum	Total	2.28 5729.53	
	Downstream		1						1.20	Cu
	Downstream		1	X	0.8	×	0.80	=	0.64	Cu
	Upstram		1	х	0.7	×	0.80	=	0.56	Cu
	Downstream	٠	•	^				Total	1.08	Cu
	Upstream		1	X	0.9	×	0.60		7 200	Cu
	AMERICANICAL			Y	0.9	×	0.60	=		Cu

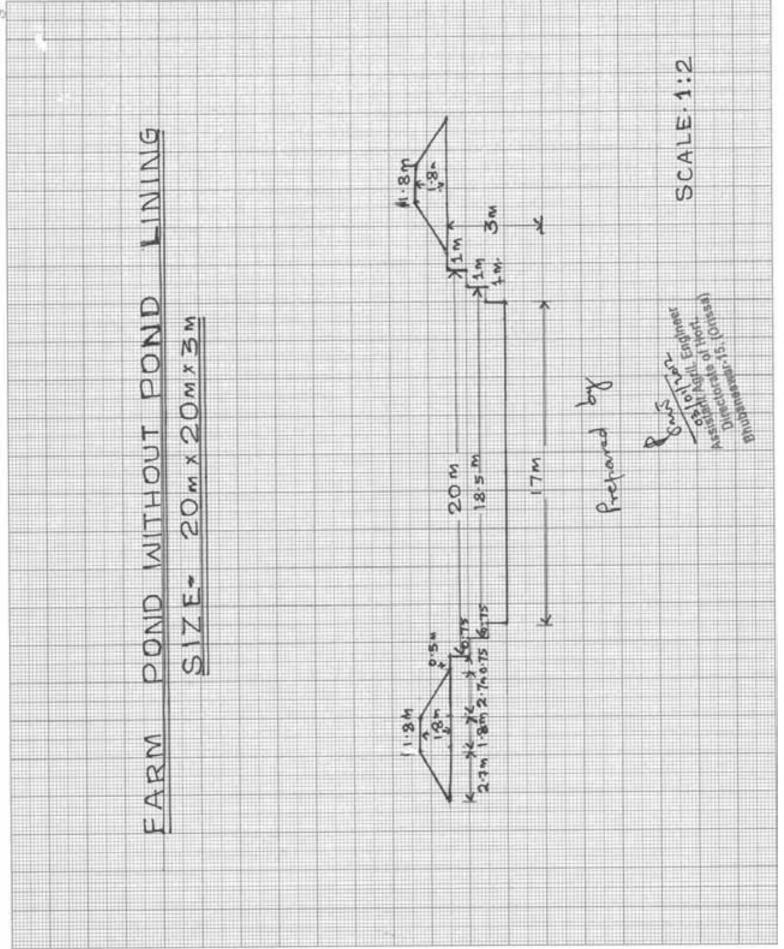
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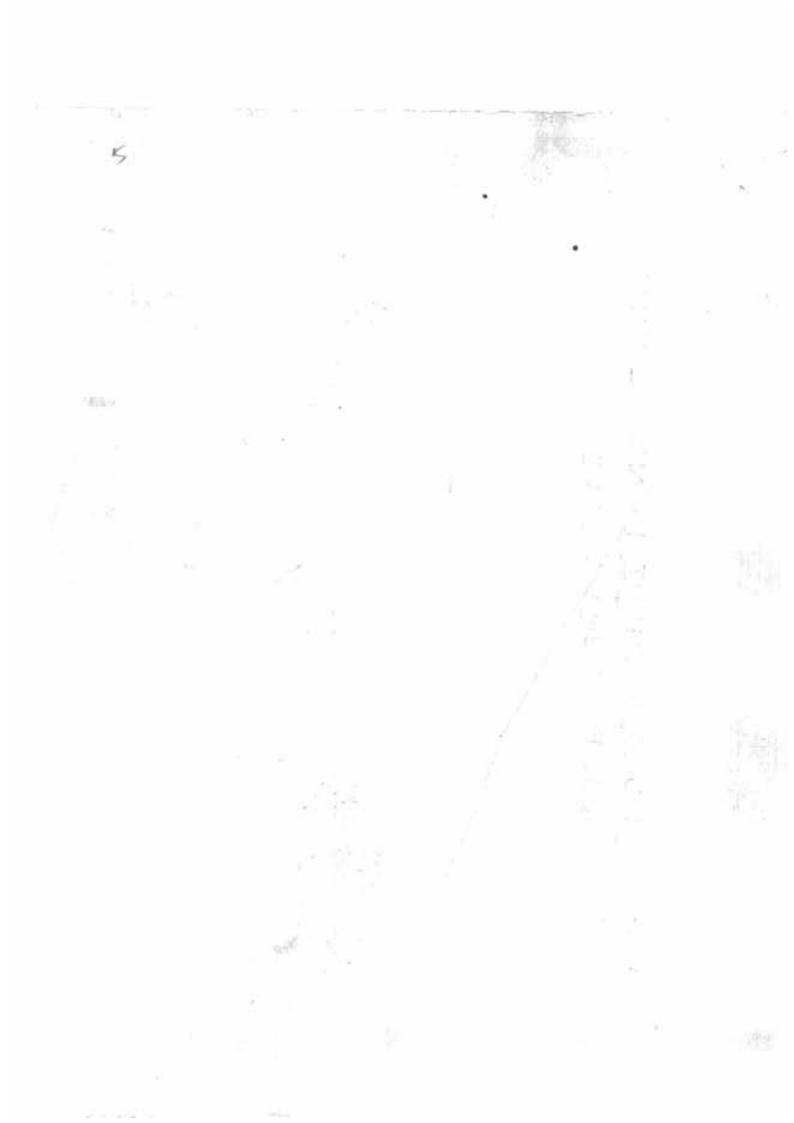
Assistant Agril. Engine:

Directorate of Hort.

Bhubaneswar-15, (Orissa)

Counterrighed

Director of Harticulture Orissa, Bhubaneswar 



Size of pond	20m x 15m X3m								
Тор									
Bottom size of pond		x 15n		De	epth of Cut	1.5m			
Top Berm	16m	x 11n	1		pth of Cut				
	0.5 n	n				2.5111			
Top Width of Bund		1.6							
Bund Height	1.6m								
Bund Slope									
Bund Inner to inner		88	(1:1.5)						
	21m >	16m							
Bund Base outer to outer	33.8m	X28.8	m						
Bund bottom width		.4							
Area of Pond including Bund									
	33.8m	X28.8	m	973.4	sam	0.24 Ac			
CS Area of Bund around Pond	(1.6m	+6.4m	)/2x1.6 m	=					
Length of Bund	2x(27.4				6.4	sqm			
Volume of Bund		1722.9	)m	=	99.6	rmt			
- Julia	99.6	X	6.4	=	637.44	cum			
Volume of Excavation									
				22	753.75	cum			

Assistant Agril. Engineer Directorate of Hort. Bhubaneswar-15, (Oris-\*)

Item of work		Dimer	nsion	Quantity	Unit	Rate	Amount	
bushes, jungles and laying or	ut	В	н	,		(Rs)	(Rs) 900	
including stoney earth, grav and moorum etc. Intersprea with boulders upto 1/2 cur size with all lifts and delif including bed levelling to desig section and depositing th	el ad m ts sn ne							
Step I	2	0 15	1	300	cum	86.89	26067	
Step II with 1.5m lift		5 14		124.875				
Step & WIE 1. Su extra	18	5 14		124.875	cum			
Bottom LIE Issueph	24 1	7 12	1					
Total				753.75		1.747.74		
Ramming and rolling of earthwork with light HRR	Qua	antity a	s above	753.75	cum	7.42	5593	
50m over the initial lead of 1.5 m over initial lift of 1	of 50 m L.5m	and ex	tra lift of	573.70	sqm	7.24	4154	
DETAILED	ESTI	MAT	FOR SL	UICE				
				.0.02				
Earthworkin excavation for Headwall	or found	oution c						
Earthworkin excavation for	or found	X	0.95	×	0.90	-	0.86	Cum
Earthworkin excavation for Headwall			0.95 1.05	x x	0.90 0.90	:	0.86 0.95	Cum
Earthworkin excavation for Headwall Upstream	1 1	×	1.05		0.90	= Total	0.95 1.80	Cum
Earthworkin excavation for Headwall Upstream Downstream	1 1	X X Rs.	1.05 86.89	×	0.90	= Total cum	0.95	Cum
Earthworkin excavation for Headwall Upstream	1 1 @ 1	×	86,89 0.95		0.90 1.80 0.15	= Total cum	0.95 1.80 156.40 0.14	Cum
Earthworkin excavation for Headwall Upstream Downstream Spreading Sand in	1 1	X X Rs.	1.05 86.89	×	0.90 1.80 0.15 0.15	= Total cum	0.95 1.80 156.40 0.14 0.16	Cum Cum Cum
Earthworkin excavation for Headwall Upstream Downstream Spreading Sand in foundation including	1 1 @ 1	X X Rs.	86,89 0.95	×	0.90 1,80 0.15 0.15 Total	= Total cum =	0.95 1.80 156.40 0.14 0.16 0.30	Cum Cum Cum Cum
Earthworkin excavation for Headwall Upstream Downstream Spreading Sand in foundation including	1 1 @ 1	X X Rs.	86.89 0.95 1.05	×	0.90 1,80 0.15 0.15 Total	= Total cum	0.95 1.80 156.40 0.14 0.16	Cum Cum Cum Cum
Earthworkin excavation for Headwall Upstream Downstream Spreading Sand in foundation including ramming and watering C.C 1:4:8 using 4 Cm size	1 1 0 1 1	X X Rs. X	1.05 86.89 0.95 1.05 206.92	×	0.90 1.80 0.15 0.15 Total 0.30	= Total cum =	0.95 1.80 156.40 0.14 0.16 0.30 62.08	Cum Cum Cum Cum
Earthworkin excavation for Headwall Upstream Downstream Spreading Sand in foundation including ramming and watering C.C 1:4:8 using 4 Cm size	1 1 @ 1 1	Rs. X	86.89 0.95 1.05 206.92	x	0.90 1,80 0.15 0.15 Total 0.30	= Total cum =	0.95 1.80 156.40 0.14 0.16 0.30 62.08	Cum Cum Cum Cum
	Survey, clearing shrub bushes, jungles and laying or including cost of pegs, rope etc.  Excavation in all types of so including stoney earth, grav and moorum etc. Intersprea with boulders upto 1/2 cursize with all lifts and delift including bed levelling to desig section and depositing the excavated materials for construction of embankment.  Step I  Step II with 1.5m lift  Step II with 1	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 2  Step II with 1.5m lift 18.  Step II with 1.5m lift 18.  Total  Ramming and rolling of earthwork with light HRR Quality of the construction of the initial lead of 50 m 1.5 m over initial lift of 1.5m 2x bund slope length x bund length 99.6	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 20 15  Step II with 1.5m lift 18.5 14  Step II with 1.5m lift 18.5 14  Total  Ramming and rolling of earthwork with light HRR Quantity a  Fine dressing and turfing with one extra 50m over the initial lead of 50 m and ex 1.5 m over initial lift of 1.5m  2x bund slope length x bund length = 2 99.6	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 20 15 1  Step II with 1.5m lift 18.5 14 0.5  Step I 15	Survey, clearing shrubs, L.S. bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 20 15 1 300  Step II with 1.5m lift 18.5 14 0.5 124.875  Step I With 1.5m lift 18.5 14 0.5 124.875  Total 753.75  Ramming and rolling of earthwork with light HRR Quantity as above 753.75  Fine dressing and turfing with one extra lead of 50m over the initial lead of 50 m and extra lift of 1.5 m over initial lift of 1.5m 573.70  2x bund slope length x bund length = 2 x 2.88 m x 99.6	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 20 15 1 300 cum Step II with 1.5m lift 18.5 14 0.5 124.875 cum  Step II with 1.5m lift 18.5 14 0.5 124.875 cum  Step II I I I I I I I I I I I I I I I I I	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 20 15 1 300 cum 86.89 section and depositing the excavated materials for construction of embankment.  Step II with 1.5m lift 18.5 14 0.5 124.875 cum 86.89 section and sec	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 20 15 1 300 cum 86.89 26067 Step II with 1.5m lift 18.5 14 0.5 124.875 cum 86.89 10850 Step II with 1.5m lift 18.5 14 0.5 124.875 cum 93.58 11686  Step II with 1.5m lift 18.5 14 0.5 124.875 cum 93.58 19090 Total 753.75 cum 67694  Ramming and rolling of earthwork with light HRR Quantity as above 753.75 cum 7.42 5593  Fine dressing and turfing with one extra lead of 50m over the initial lead of 50 m and extra lift of 1.5m over initial lift of 1.5m 573.70 sqm 7.24 4154  28 bund slope length x bund length = 2 x 2.88 m x 99.6





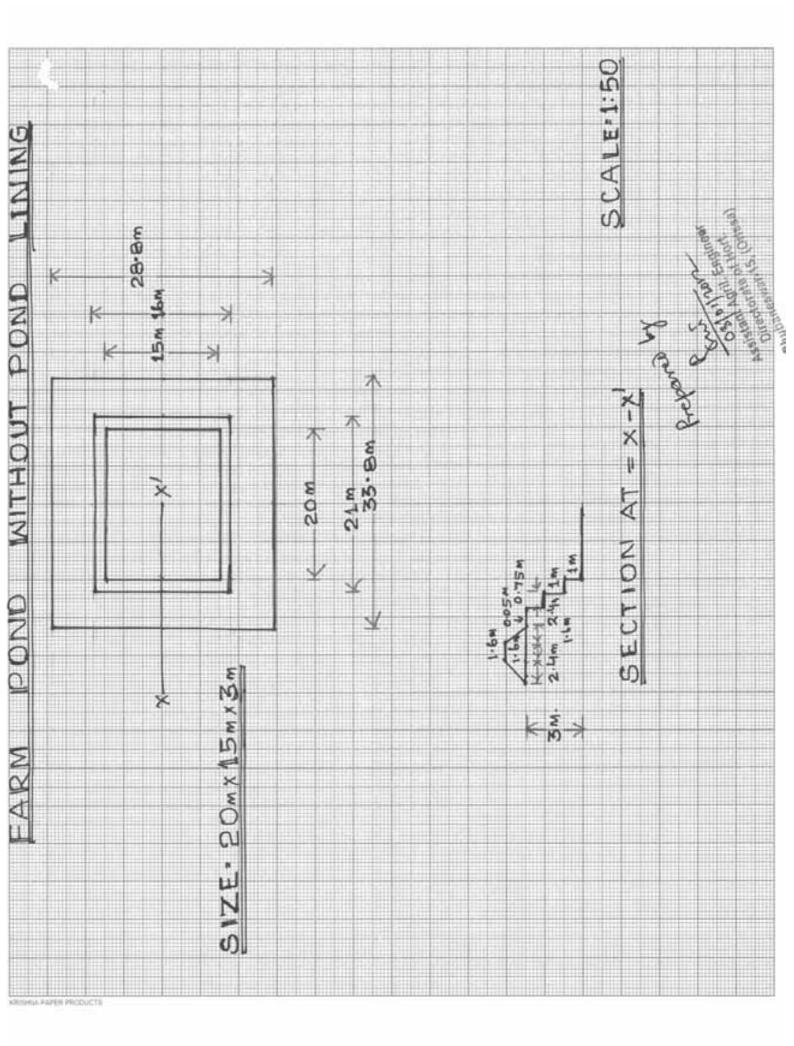
aying and fixing of Hume ost of Collars abor charges xpr.on misc. and other nforeseen items	Top sides  @ pipe 6" d Length	Rs.	x x 110.38 th collars M	(0.8+0.5)	4.00 2.00 50.00	0.8 sqm Nos Nos Per m	Total  Nos Nos Per m	1.92 6.60 728.50 3000 300 300 300	
ost of Collars abor charges	sides @ pipe 6" o	Rs. lia wi	110.38 th collars M	(0.8+0.5)	6.60 4.00 2.00	sqm Nos Nos	Total Nos Nos	1.92 6.60 728.50 3000 300	S
ost of Collars	sides @ pipe 6" o	Rs. lia wi	110.38 th collars M	(0.8+0.5)	6.60 4.00 2.00	sqm Nos Nos	Total Nos Nos	1.92 6.60 728.50 3000 300	S
	sides @ pipe 6" o	2 Rs. lia wi	x 110.38 th collars	All Comments	6.60	sqm	Total	1.92 6.60 728.50 3000	S
aying and fixing of Hume	sides @ pipe 6" o	Rs.	x 110.38	All Comments	6.60	sqm	Total	1.92 6.60 728.50	S
	sides	2	x	All Comments				1.92 6.60	S
	1			All Comments	x	0.8		1.92 6.60	S
	1			All Comments	x	0.8	=		
	Top		X	0.5				0.50	5
		1	100	0.5				0.50	
Downstram		1	X	0.8			=	0.80	S
sides		2	×	(0.7+0.5)	×	0.8	=	1.92	S
		1	×	0.5			=	0.50	S
		1	x	0.8			=	0.80	S
Language and the second								3/29.33	
		0	2512.05		2.20		Total	2.28	C
Downstream		1	X	0.8	х	0.80	-	- TOTO -	0
Upstram		1	×	0.7	×				C
							Total	1.08	C
Downstream		1	X	0.9	×	0.60		0.54	C
Upstream		1	X	0.9	×	0.60	2	0.54	C
	Downstream  Upstram  Downstream  S mm thick cement plast	Upstram Downstream  Ownstream  mm thick cement plastering in C Upstream Top sides Downstram	Downstream 1  Upstram 1  Downstream 1  Rs.  mm thick cement plastering in CM 1:  Upstream 1  Top 1  sides 2  Downstram 1	Downstream 1 X  Upstram 1 X  Downstream 1 X  Rs. 2512.95  mm thick cement plastering in CM 1:6  Upstream 1 X  Top 1 X  sides 2 X  Downstram 1 X	Downstream	Downstream	Downstream	Downstream	Downstream

Prepared by

Assistent April. Engineer Directorate of Hort. Bhubaneswar-15, (Orissa)

Countersigned.

Director of Hortfculture Orissa, Bhubaneswar



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Size of pond	15m	x 15mX3	m		
Тор	15m x 15m		Do	pth of Cut	1.50
Bottom size of pond	11mX11m			pth of Cut	1.50 1.5m
Top Berm	0.5 m				
Top Width of Bund	1.5 m				
Bund Slope	2.88	(1:1.5)			
Bund Height	1.6	.,,,,,,,,,,,			
Bund Inner to inner	16m x 16m				
Bund Base outer to outer	28.6X28.6m				
Bund bottom width	6.3 m				
Area of Pond including Bund	28.6 X	28.6	818	sqm	0.20 Ac
CS Area of Bund around Pond	(1.5m +6.3m	)/2x1.5m	=	5.850	sqm
Length of Bund	4X22.3m		=	89.2	rmt
Volume of Bund	89.2 X	5.85	=	521.82	cum
Volume of Excavation			=	551.25	cum

Assistant Agril, Engineer
Directorate of Hoet,
Bhubaneswar-15, (Ornsa)

MODEL ESTIMA	IE FOR I	PAINIVI.	OILE	(INIAITONE			
- 15m X 15mX3m		J- Inches		and the state of t	Tolk .	Pate	Amount
	Dimension			Quantity	Unit	100000000000000000000000000000000000000	(Rs)
WEEKING TO COURSE OF THE COURSE	L L.S.	В	Н			(11.5)	300
bushes, jungles and laying out including cost of pegs, ropes etc.							
Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.							
Creat.	15	15	1	225	cum	86.89	19550
4505500		13.5	0.5	91.125	cum	86.89	7918
Step II with 1.5III inc		13.5	0.5	91.125	cum	93.58	8527
			1	144	cum	93.58	13476
Total	94)			551.25	cum		4947
2 Ramming and rolling of earthwork with light HRR	Quantity as above			551.25	cum	7.42	4090
Fine dressing and turfing over the initial lead of 50 over initial lift of 1.5m 2x bund slope length x bu	m and e	xtra litt	01 1.5 m	398.59	sqm	6.54	260
	Item of work  Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I  Step II with 1.5m lift  Local Construction of embankment.  Total  Ramming and rolling of earthwork with light HRR  Fine dressing and turfing over the initial lead of 50 over initial lift of 1.5m	Item of work  Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I  Step II with 1.5m lift 13.5  Lo Harring III 14.5  Lo Harring III 14.5	Item of work Dimension  L B  Survey, clearing shrubs, L.S. bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I 15 15  Step II with 1.5m lift 13.5 13.5  Lo (15 - 16 - 16 - 16 - 16 - 16 - 16 - 16 -	Item of work  Dimension  L B H  Survey, clearing shrubs, L.S. bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I Step II with 1.5m lift 13.5 13.5 0.5  Le H (1000 Levelly) 13.5 13.5 0.5  Levelly Levelly Levelly 13.5 13.5 0.5  Levelly Levelly 14.5 15 15 15 15 15 15 15 15 15 15 15 15 15	Item of work  Item of work  Dimension  L B H  Survey, clearing shrubs, L.S. bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I Step II 15 15 1 225  Step II with 1.5m lift 13.5 13.5 0.5 91.125  Lo (1900 Limital) 13.5 13.5 0.5 91.125	Item of work  Item of work  Dimension  L  B  H  Survey, clearing shrubs, bushes, Jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I  Step II with 1.5m lift  13.5  13.5  13.5  91.125  cum  L  Ramming and rolling of earthwork with light HRR  Guantity as above  551.25  cum  Ouantity of 1.5m  398.59  sqm	Item of work  Item of work  L B H  Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.  Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I  Step II 15 15 1 225 cum 86.89  Step II with 1.5m lift 13.5 13.5 0.5 91.125 cum 93.58  L  Ramming and rolling of earthwork with light HRR  Quantity as above 551.25 cum  Fine dressing and turfing with one extra lead of 50m over the initial lead of 50 m and extra lift of 1.5 m  Output Initial lift of 1.5m  398.59 sqm 6.54

DETAILED ESTIMATE FOR SLUICE

L	Earthworkin excavation for Headwall	rfounda	ation of s	luice				0.96	Cum
	Upstream Downstream	1	X X	0.95 1.05 86.89	×	0.90	= Total cum	0.86 0.95 1.80 156.40	Cum Cum
2	Spreading Sand in foundation including ramming and watering	@ 1 1 @	Rs. X	0.95 1.05 206.92	×	0.15 0.15 Total	= ) cum	0.16	Cum Cum Cum
3	C.C 1:4:8 using 4 Cm size H.G.Metal	1 1	X x Rs.	0.95 0.15	x x	0.15 0.15 Total 0.1		0.0	4 Cum 2 Cum 7 Cum 3

Reme

4	Laterite Stone masonry (1:6 in	f&p.							
	Upstream	1	X	0.9	×	0.60	-	0.54	C
	Downstream	1	X	0.9	×	0.60	1 -0	0.54	Cum
					- 70	- 3.00	Total	1.08	Cum
	Upstram	1	X	0.7	×	0.80	=		Cum
	Downstream	1	X	0.8	×	0.80	-	0.56	Cum
				1 22	100%	0.00	-	0.64	Cum
							Total	1.20	Cum
		@ Rs.	2512.95		2.28	er i en	Total	2.28	
5	16 mm thick cement plastering	in CM 1:6	5		2.20	cum		5729.53	1
	Upstre		-						
		Top 1	×	0.8				0.80	Sqm
	sides		×	0.5				0.50	Sqm
	Downstr		×	(0.7+0.5)	X	0.8	= :	1.92	Sqm
		op 1	×	0.8				0.80	Sqm
		des 2	×	0.5				0.50	Sqm
	Sic	ies 2	×	(0.8+0.5)	X	0.8	-	1.92	Sqm
		0 0	****				Total	6.60	Sqm
6	Laying and fixing of Hume pipe	@ Rs.	110.38		6.60	sqm		728.50	20.000
a.									
	Cost of Collars	th 6	M		3.00	Nos	Nos	3000	
	Labor charges				2.00	Nos	Nos	300	
8	Expr.on misc. and other	6	M	L.S Rs	50.00	Per m	Per m	300	
	unforeseen items							175.T	
	Total							250.00	
_	G Total						Rs.	250.00	
	Limited	to Rs.675	00.00 (run	ees sixty se	unn tha		KS.	67502	

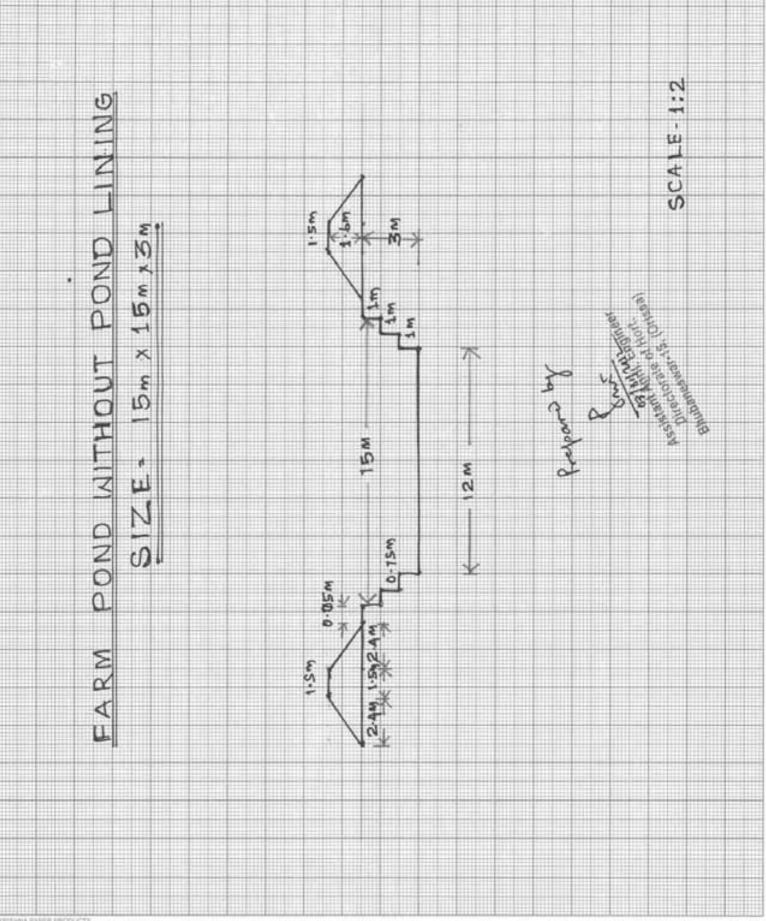
Proposed by

Assistant April Engineer Directorate of Hort. Bhubaneswar-15, (Orissa)

Countersigned.

Orissa, Bhubaneswar





· · ·

Size of pond	15n					
Тор	15m x 10	)m		Dep	th of Cut	1.5m
Bottom size of pond	12m x 7r	m		Dep	th of Cut	1.5m
Top Berm	0.5 m					
Top Width of Bund	1.2m					
Bund Height	1.4m					
Bund Slope	1.98		(1:1)			
Bund Inner to inner	16m x 1	1m				
Bund Base outer to outer	24mX16	m				
Bund bottom width	4	m				
Area of Pond including Bund	24mX19	m		456	sqm	0.11 Ac
CS Area of Bund around Pond	(1.2 m + 4 m)/2x1.4 m			=	3.64	sqm
Length of Bund	2x(20+15)m			=	70	rmt
Volume of Bund	70	Х	3.64	=	254.8	0 cum
Volume of Excavation				=	265.5	cum

Assistant Warff. Engineer Directorate of Hort. Bhubaneswar-15, (Orissa)



1.	Item of work	Di	mensio	n	Quantity	Unit	Rate	Amount
0.	PARAMETER STORE 1	L	В	Н			(Rs)	(Rs)
1	Survey, clearing shrubs, bushes, jungles and laying out including cost of pegs, ropes etc.	L.S.						100
2	Excavation in all types of soil, including stoney earth, gravel and moorum etc. interspread with boulders upto 1/2 cum size with all lifts and delifts including bed levelling to design section and depositing the excavated materials for construction of embankment.  Step I  Step II with 1.5m lift	15 13.5 13.5		1 0.5 0.5		cum cum	86.89 86.89 93.58	13034 4985 5369
	Botton ( In Sa explain LH)	10000000	7	1	84	cum	93.58	7861
	Total	12			348.75	cum	33.30	31249
					340.73	Com		522.75
3	Ramming and rolling of earthwork with light	Quar	itity as	above	348.75	cum	7.42	2588
4	Fine dressing and turfing v 50m over the initial lead o 2x bund slope length x bur x 70	f 50 m	of 1	5m	277.20	sqm	6.54	1813

**DETAILED ESTIMATE FOR SLUICE** 

1	Earthworkin excavation Headwall	for four	ndation	of sluice					
	Upstream	1	X	0.95	×	0.90	. =	0.86	Cum
	Downstream	1	X	1.05	x	0.90	=	0.95	Cum
							Total	1.80	Cum
		@	Rs.	86.89		1.80	cum	156.40	
2	Spreading Sand in	1	X	0.95	×	0.15	=	0.14	Cum
	foundation including	1		1.05		0.15		0.16	Cum
ramming and wat	ramming and watering	-				Total		0.30	Cum
		@	Rs.	206.92		0.30	cum	62.08	
	C.C 1:4:8 using 4 Cm size H.G.Metal								
	Size M.O.Meto	1	X	0,95	×	0.15	=	0.14	Cum
		1	×	0.15	×	0.15	=	0.02	Cum
						Total		0.17	Cum
		@	Rs.	2981.33		0.17	=	506.83	

Row

	G Total							Rs.	4528	-
7	Expr.on misc. and other unforeseen items	Total							0.0	
	Labor charges		4	M	L.S Rs	50.00	Per m	Per m	200	
	Cost of Collars					1.00	Nos	Nos	150	
		Length	4	M		2.00	Nos	Nos	2000	
,	Laying and fixing of Hum	e pipe 6"	dia v	with collars						
		@	Rs.	110.38		6.60	sqm	Total	<b>6.60</b> 728.50	5
		sides	2	×	(0.8+0.5)	×	0.8	=	1.92	5
	0.70	Тор	1	×	0.5				0.50	5
	Dov	vnstram	1	Х	0.8			=	0.80	5
		sides	2	×	(0.7+0.5)	×	0.8	=	1.92	5
		Тор	1	×	0.5			=	0.50	5
		pstream	1	×	0.8			=	0.80	S
	16 mm thick cement plas					4.40	com			
		@	Rs.	2512.95		2.28	cum	Total	5729.53	
								Total	2.28	1
	Downstream		1	х	0.8	х	0.80	=	1.20	C
	Upstram		1	×	0.7	х	0.80	=	0.56	0
								Total	1.08	C
	Downstream		1	X	0.9	х	0.60	=	0.54	C
	Upstream		1	×	0.9	×	0.60	=	0.54	C

Assisted Allril. I.

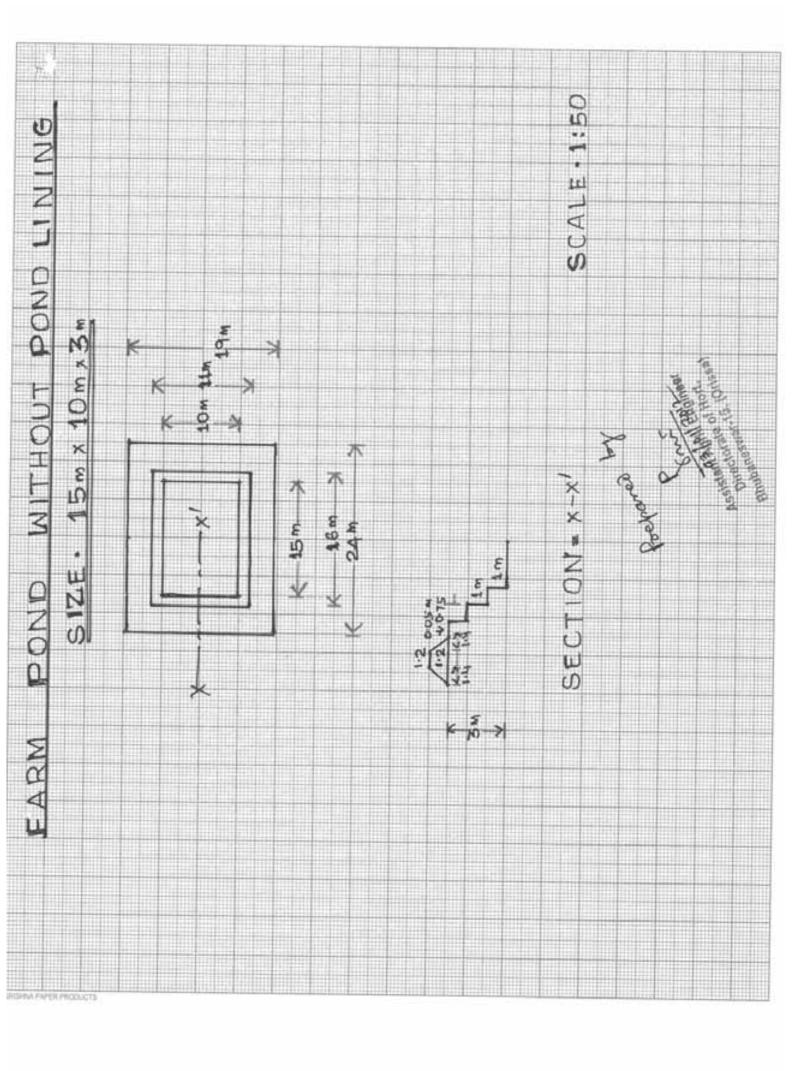
Directorate of 2

Bhabaneanar-15, (Unc......

Countersigned.

Director of Horticulture Orissa, Bhubaneswar





2 /4 

# ANALYSIS OF RATES FOR FARM POND UNDER NHM

1 Earthwork in hard soil for foundation within 50 m initial lead and 1.5 m initial lift including rough dressing and levelling of bed as per the direction of Engineer in charge.

0.96 Cum @ Rs 70.56 67.74 0.48 Cum @ Rs 19.60 9.41	
711 AB	
0.06	
264.02	
2640.17	
per each RS 210.00	
1.4 No @ Rs 150.00 per each Rs 375.00	
2.5 No @ Rs 150.00 per each Rs 34.20	
0.18 No @ Rs 190.00 713.40 Rs 1227.05	
1.72 Ott @ Ps 740.40 per cum Rs 79.68	
0.48 Cum @ Pc 188.00 per cum Rs 714.24	
0.96 Cum @ Pc 744.00	
usher broken HG Metal	
124.00	
1 Cum @ Rs 124.00 per cum Rs 124.00	
Cum @ KS 19.60 per cum Rs 10.60	
E CF	
57.67	
1.13	
1 Cum @ Rs 38.00 per cum Rs 38.00	
0.1236 Nos @ Rs 150.00 Each Rs 1854	
watering and ramming per cum	=
n including watering and 100.46	
12.3	
61.5	
150.00 each Rs 615	
4.1 No@ Rs 150.00	
upto 4.5m (up to 7.5m)	
there of over the initial lift of 1.50m, per 100 cum	<b>=</b>
03 50	
688.8	
12.3	3
61.5	5
150.00 each Rs 615	5
4.1 No@ Rs 150.00	
upto 3 m (up to 7.5m)	
rt there of over the initial lift of 1.50m, per 100 cum	69
Rs 8668.	3500
Rs 1444	
Rs 645.	
Total Rs 6579	
Rs 129.	-
2000 Cacii KS 3225	
21.5 Nos @ Rs 150.00 F-1	
21.5 Nos @ Rs 150.00 Fach Pc 2226	
bed as per the direction of Engineer in charge.	

4 Laterite Stone masonry in CM 1:6

Emi



Rough dressed laterite Stone	1	Cum @ Rs	677.00			
Sand	0.24	20 1 - C	077.00	Cum	Rs	677.00
Cement	0.572	Cum @ Rs Qtl @ Rs	166.00		Rs	39.84
Sione dresser(spl)	2.12	No @ Rs	713.40	-	Rs	408.06
Sangi mulia	1.41	No @ Rs	205.00	Each	Rs	434.60
Mason Spl	0.175	No @ Rs	170.00	Each	Rs	239.70
Mason 2nd class	1.05	No @ Rs	205.00	Each	Rs	35.88
Man Mulia	1.05		190.00	Each	Rs	199.50
Man Mulia forpreparing mortar	0.16	No @ Rs	150.00	Each	Rs	157.50
5 5 233	0.10	No @ Rs	150.00	Each	Rs	24.00
Add 10% O.H					-	2216.08
Royality						221.61
Rough dressed laterite Stone	1	Cum @ Rs	70.56			70.56
Sand	0.24	Cum @ Rs	19.60			
	Rate for 1				-	4.70
16mm thick plastering in cemen	t mortar 1	:6 over brick or	ctons			2512.95
16mm thick plastering in cemer Sand	0.010	The brick of	atone mass	onry work	in ground	d floor
Cement	0.019	Cum @ Rs	166.00	per cum	Rs	2.99
Mason 2nd class	0.043	Qtl @ Rs	713.40	713.40	Rs	30.68
Man Mulia	0.16	No @ Rs	190.00	Each	Rs	30.40
Woman mulia	0.11	No @ Rs	150.00	Each	Rs	16.50
Mulia for mixing	0.11	No @ Rs	150.00	Each	Rs	
- Trinking	0.02	No @ Rs	150.00	Each	Rs	16.50
Add 10% O.H				200		3.00
						100.06
Excavation of an					-	10.01
Excavation of any approved type	of soil in a	pproved horrow	t aven t	20 00		110.07

6 Excavation of any approved type of soil in approved borrow area by mechanical means and unloading the soil levelling the earth in 22.5 cm layers to make ready for watering and compaction in dams and dykes for all as per the direction of engineer-in-charge 9measurement of the fill to be taken on the finished compacted For 1 cum

## A) Excavation by Mechanical Means

## Considering Excavator of the following specification

Capacity of bucket					
Bucket fill factor	1	Cum			
Overall efficiency	0.9				
Considering effective working	83	%			
Production per hour (loose earth) 60	50	min/Hr	=		
	× 0.90 × 0	0.83		44.82	C
Hire charges of excavator excluding supervision charge per Hr	840			44.02	Cum/Hr
Cost of Mechanical Excavation per 1 cum	1900				
B.Transportation cost	18.74	/Cum			
Capacity of Tipper (loose Soil)					
	5.5	Cum			
Taking the carrying capacity of tipper to be	80	%	=	4.4	Cum
					Culli





- 1 "					101/1	
a. Loading time = body capa	acity / exca	avator output no	e i	보통하	Km	
o. Loaded naul @10Km/Hr	LOWNER TORSE	output pe	5.8	89 (	Min	
Empty Haul @10 Km/Hr			2		Min	
Spotting, Turning and			2		Иin	
Total cycle time			1.	2	∕lin	
Quantity to be carried per	hr		11.2		/lin	
			23.38	331 C	um	
Considering a swell factor	for all kind	ds of soil	0.8	5		
Quantity of land excavatio	n per Hr		20.10			
Hire charges of tipper per l charges	nr excludin	g supervision		200	ım	
Depreciation of tyre and			582			
Hire charges of tipper per h	251		14.25	5		
Cost of Transportation	ir:		596.2	5 per	Hr	
Cost of Transportation in al	l kinds of s	oil	25.50			
Total transportation and ex			44.24			
Add for trimming of Slopes	mannually			P. Serv. Ser		
Prime cost			2.73	Per co	ım	
Add for Overhead charges			46.97	Per cu	ım	
10%			4.70			
Add 2% sundries of prime co			51.67	Per cu	m	
or prime co	5(		0.94			
		Total	52.61	Per cui	m	
Ramming and rolling of earth Data for 28.31 cum	work with	Baha tina		100000	(A)	
Data for 28.31 cum	with	iight HRR in laye	ers of 0.3 m	depth		
Man mulia						
Woman mulia	0.75	No @Rs	150.00	Each	Rs	112.50
	0.50	No @Rs	150.00	Each	Rs	112.50 75.00
Add 10% O.H					Rs	187.50
2% Earth for filling interstices			=		Rs	18.75
Entropy And American					Rs	3.75
					-	
		Rate	per 1 cum		Rs	210.00
ine dressing and to-	Salah dalah Salah				Rs.	7.42
ine dressing and turfing with it. .5m as per direction of engine	nitial lead	of 50M and initia	al lift of			
ar anguic	er in charg	e per 100 sqm				
oman mulia for dressing	0.40	No @Rs	150.00	Foot	-	
an mulia for cutting turf	1	No @Rs	150.00	Each	Rs	60.00
emale mulia for carrying turf	8.0	No @Rs	150.00	Each	Rs	150.00
lan mulia for placing turf and mming with thappies	0.74			Each	Rs	120.00
with thappies		No @Rs	150.00	Each	Rs	111.00
ld 10% O.H					Rs	441.00
% Earth for filling interstices					Rs	44.1
77 10000000						8.82
					Rs	77766
Extra lead of so-					Rs	493.92
Extra lead of 50m or part there	of over th	e initial lead of 9	0m, per 10	0.500		
			, per 10	o adm		



	Man mulia	0.95	Na@ D	o overson			
	Over head charges, 10%	0.55	No@ Rs	150.00	each	Rs	142.5
	2% Sundries ,T7P etc.						14.25
	otal per 100 sqm						2.85
	With extra lead, Rate/sqm						159.6
	Extra lift of 1. 50m or part the	ere of ove	r the initial life	of t ro	1800		6.54
c	Man mulia	0.42			r 100 sqm		
	Over head charges, 10%	0.42	No@ Rs	150.00	each	Rs	63
	2% Sundries ,T7P etc.						6.3
	per 100 sqm						1.26
	Total, per 100 sqm						70.56
	Per 1 sqm						724.08
11	Labour for spreading moorum a consolidation with HRR includin watering but excluding cost and Data for 2.83 cum	p					7.24
	Man Mulia for removing from	1.5	No @Rs	150.00	Each	Rs	225.00
	Women Mulia for watering & conveyance etc.	1.5	No @Rs	150.00	Each	Rs	225.00
- 3	Add 10% O.H						450.00
	Add 2% sundries						45.00
							9.00
				Rate	051		504.00
		Cost	of Moorum inc	luding royali	er 1 cum		178.09
				- Groyan	y/ cuin		293.10
							471.19

Prepared by

Assistant Agril. Engineer Directorate of Hort. Bhubaneswar-15, (Orissa)



Material	1 Inde	place	land.	Ass E box	to. EOLon	TD seeds	Pilatonan	1	L				
	Í	97	(km)	LSC 3 KIII	upos social	50Kms	Beyond 50Km	50kms	Total TP	Cost	Total cost	Royalty	Total cost including royalty
40 mm CBHG Metal	Cum		2	124	0	0	0	0	124	620	744	70.56	814.56
Sand for filling	Cum		ın	124	0	0	0	0	124	38	162	19.60	181.60
Sand (S/W)	Cum		2	124	0	0	0	0	124	42	166	19.60	185.60
Cement	ĕ		S	13.4	0	0	0	0	13.4	700	713.40	0	713.40
Моогит	Cum		20	124	109.5	0	0	0	234	40	274	19.60	293.10
Laterile Stone	Cum		15	124	73	0	0	0	197	480	229	70.56	747.56
RRHG Stone	Cum		5.00	124.00	0	0	0	0.00	124.00	100	224.00	70.56	294.56
Brick	2000 Noo		2.00	799	0	0	0	00:00	799.00	00.00	00.00	19.60	818.60

Assistant Right. Engineer Assistant Right. Engineer Assistant Right. Engineer Assistant Superior 15, (Orissa)

## GUIDE LINES FOR IMPLEMENTATION OF FARM POND AND POND LINING SCHEME UNDER NATIONAL HORTICULTURE MISSION.

- 1. Indicative estimates for different sizes of Farm Ponds are enclosed, the sizes being :
  - a. 20MX20MX3M with manual labour, without pond lining.
  - b. 20MX20MX3M with mechanical excavation and with pond lining
  - c. 20MX15MX3M with manual labour without pond lining.,
  - d. 15MX15X3M with manual labour without pond lining
  - e. 15MX10MX3M with manual labour without pond lining

Preference should be given to any one of such models or models of higher dimensions. For farm ponds other than the abovementioned sizes, subsidy can be administered on pro-rata basis. How ever, the minimum size of the pond should not be less than 10MX10MX3M size.

- Subsidy will be limited to 50% of the project cost.
- 3. Maximum cost of the project will be limited to Rs.100.00 per cum /cost of the unit.
- 4. The beneficiary will have to bear the extra cost if any other material or item of work is taken up.
- Any farmer taking up horticultural activities is eligible to avail the benefits under the scheme.
- 6. The farmer will apply for execution of the project in the enclosed format to the DDH/ADH through concerned
- The AHO is to issue the feasibility report.
- 8. The Farm Pond is to be executed in the same Mouza, Khata and Plot for which feasibility report has been issued by the AHO. No payment will be made if there is any deviation in location.
- 9. It is mandatory that photographs with GPS enabled camera must be taken before and after execution of the programme in presence of the beneficiary and the AHO of the concerned block and must be retained in form of hard and soft copy.
- 10. The beneficiary list is to be approved by the District Mission Committee.
- 11. On receipt of completed applications, the DDH/ADH should pre-sanction the subsidy and issue go-ahead letter in favour of the farmer/or the executants selected by the farmer.
- 12. The beneficiary is to execute the work as per the specified design. Pond lining is optional.
- 13. The Polythene used for the lining must be of 500 micron thick, virgin plastic.
- 14. Adjoining polyethylene sheets must be joined with adhesive or heat pressed to make the pond water tight.
- 15. The beneficiary is free to choose the supplier of the Polythene Sheet.
- 16. The ADH/DDH will facilitate the procurement of the polythene sheet on behalf of the farmer. In such cases, payment of subsidy for the polythene sheet can be made to the supplier on authorization of the farmer.
- 17. The work must be completed within a period of 90 days from the date of issue of go ahead letter / work order.
- 18. Deductions as per Govt. Rule will be made from bills while making payments.
- 19. The beneficiary has to submit stamped Advance Money Receipt towards subsidy due to him.
- 20. There is no provision to transport the excavated earth outside the project area in the approved estimate. If the beneficiary desires to take away the excavated earth and dump elsewhere, then he/she should do so at his/her own cost and means.
- 21. The specifications as mentioned in the drawing must be adhered to. The AAE will certify the specifications and submit his completion report to the DDH.
- 22. On the basis of the completion report and authorization of the farmer, the DDH/ADH will release the payment to the concerned farmer/executants/supplier.
- 23. The farmer/beneficiary will be responsible for maintenance of the pond.
- 24. The DDH/ADH will maintain the records and regularly submit progress report to the Directorate.

Director of Horticulture 3/01/13 Ortssa, Bhubanes v m

#### ANNEXURE -A

APPLICATION FORM TO AVAIL SUBSIDY FOR FARM POND UNDER NHM.

01. Name of the Beneficiary (Capital letter):

Father's /Husband's Name: 02.

03. Address :

PO

G.P.

Block

P.S.

District

Tel. No.

Mob. No.

04. Proof of Identity:

Voter I-Card/PAN Card/D.L. No.

( Attested copy to be submitted along with the application)

05. Category:

SC/ST/W/Gen:

06. Details of Plot where FARM POND is to be excavated:

Plot No.

Khata No.

Mouza

G.P.

Block

District

- 07. Choice of Executant: i) For excavation:
  - ii) For Polythene Lining:

#### Declaration

I hereby declare that, I have gone through the detailed procedure laid down by the Director of Horticulture, Odisha, Bhubaneswar for excavation of Farm Pond under NHM and I shall abide by the rules & regulations. Further, I declare that the information furnished above is true to the best of my knowledge.

Date :

Signature of Beneficiary

Place:

#### Recommendation

The documents furnished as above have been verified. The site is fit for excavation of Farm Pond under NHM. The GPS photograph is taken before

Counter signature of ADH

Signature of AHO



#### ANNEXURE-B

## ADVANCE MONEY RECEIPT

Received from Dy Director	of Horticulture/Asst. Director of Horticulture
	a sum of Rs
(Rupees	)towards the subsidy for execution
of earth work and polyethylene lining of	of Farm Pond in my field availed under National
Horticulture Mission during the year	
Date	
Place Identified by: AHO	Signature of the beneficiary
tandere sund seed to the first suit of the seed of the	Address
FOR OFFICE USE	
Certified that the subsidy amount menti- mentioned below.	oned above has been due as per the break up
A. Towards earth work in excavation of B. Towards polyethylene lining on Farm	Farm Pond by Mech means : Rs. Pond Rs.
Common market som to the state of the state	Total : Rs.
Signature of A.H.O.	Signature of Asst. Agril. Engineer

DDH/ADH



#### ANNEXURE-C

#### COMPLETION CERTIFICATE

Photograph of the Pond with beneficiary and a field functionary of Directorate.

- 01. Name of the Beneficiary (Capital letter) :
- 02. Father's /Husband's Name:
- 03. Address At P.O : G.P. Block P.S District

Tel No. Mob. No.

- 04. Name of the Executant: i) For excavation:
  - ii) For Polythene Lining:
- 08. Size of the farm pond.
- 06. Date of receipt of completion report from the Beneficiary

Signature of Beneficiary

#### ANNEXURE - D

## Beneficiary's Authorization

Excavation of farm pond in my Plot	: NoKhata No.
under NHM( Scheme on da M/s the subsidy for an amount of Rs Horticulture/ADH, that ha	ally completed by the executants and pond M/s  ted) I hereby authorize & M/sto receive to receive the deputy Director of some the Deputy Director of the Director of Horticulture vide
letter/order nodated	
Place :	Signature of Beneficiary
Date :	Rs.2/- Revenue Stamp
	EXURE-E
District	S/o/D/o/W/o
Place :	
Date :	Signature of Beneficiary

## Verification by the AHO/ADH

The farm pond has been excavated in the field of the above mentioned beneficiary by M/s and is found to be suitable for use by the beneficiary. Recommended for release of subsidy. The GPS photograph is taken after execution for record.	
ADH	АНО
Verific	ration by the AAE
Director of Horticulture, Odisha vic	of farm pond has been completed by M/s as per the specification laid down by the le Directorate Letter No dt
	Asst. Agril. Engineer
	O/o the Dy.Director of Horticulture/ADH
Subsidy for Rs	(Rupees) only
is released in favour of Sri farm pond under NHM on dt	towards excavation of
	Dy. Director of Horticulture/ADH