
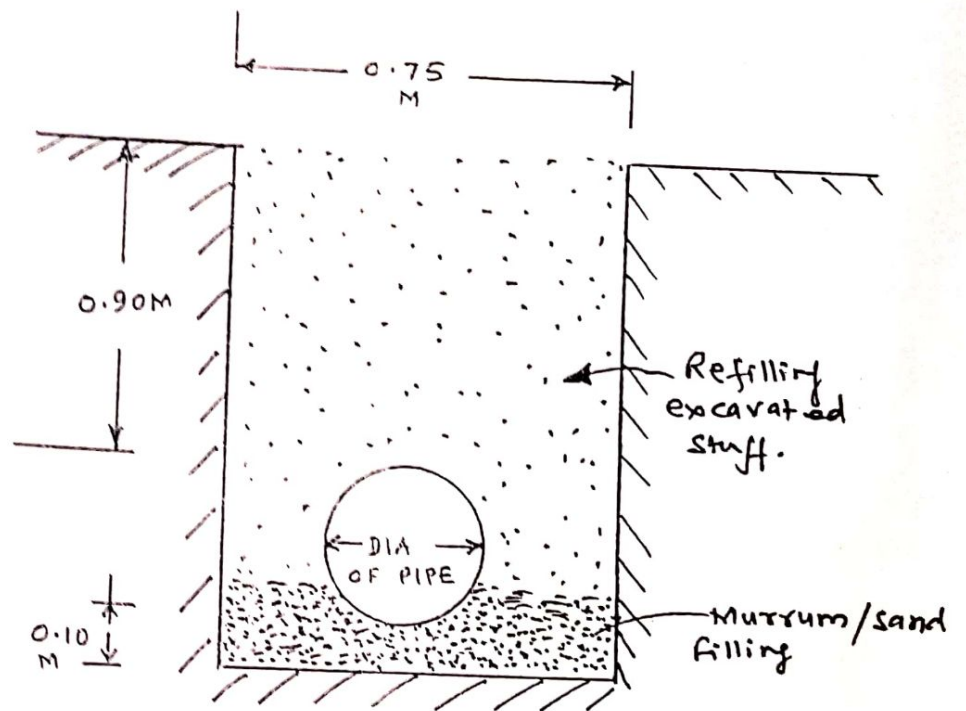


## प्रमाण पत्र

प्रमाणित किया जाता है कि, नेरली समूह जल प्रदाय योजना के अंतर्गत संरक्षित एवं आरक्षित वन क्षेत्र में पाईप लाईन बिछाने हेतु भूमि की खुदाई श्रमिकों द्वारा किया जाएगा एवं किसी भी वृक्ष को नुकसान नहीं पहुँचाया जाएगा।

  
 Assistant Engineer.  
 Sanitation Engineering Project  
 सहायक अभियंता  
 लोक स्वास्थ्य एवं परिवार कल्याण विभाग (C.G.)  
 परियोजना उपखण्ड क्रमांक 04  
 जगदलपुर



TYPICAL CROSS SECTION OF  
PIPE LINE WORK.

*Went*  
Assistant Engineer,  
Public Health Engineering Project  
Sub Dn. No 4, Jagdalpur (C.G.)

NERLI GROUP WATER SUPPLY  
SCHEME.



# कार्यालय कलेक्टर एवं जिला दण्डाधिकारी जिला-दन्तेवाड़ा (छत्तीसगढ़)

फोन नम्बर :- 07856-252455, फैक्स :- 07856-252488, ई-मेल पता :- drmdantewadacsr@gmail.com

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---: **प्रशासकीय स्वीकृति आदेश** :---

क्रमांक/...1714.../जिला कार्यालय/एनएमडीसी/सम्राजप्रयो/2017

दन्तेवाड़ा, दिनांक 30/03/2017

कार्यपालन अभियंता, लोक स्वास्थ्य यांत्रिकी दन्तेवाड़ा के द्वारा प्रस्तुत प्रस्ताव एवं एनएमडीसी काम्प्लेक्स किरन्दुल के द्वारा वर्ष 2016-17 में स्वीकृत बजट अनुसार जिले के लाल पानी से प्रभावित कुल 08 ग्रामों हेतु एनएमडीसी काम्प्लेक्स किरन्दुल के नेरली समूह ग्रामीण जल प्रदाय योजना के तहत कार्यपालन अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग दन्तेवाड़ा से प्राप्त प्राक्कलन मय तकनीकी स्वीकृति के आधार पर उन्हें कार्य एजेंसी नियुक्त निम्न तालिका में दर्शित कार्य की प्रशासकीय स्वीकृति प्रदान की जाती है :-

क्र.	कार्य का नाम	कार्य संख्या	ग्राम/नगर पंचायत	जनपद पंचायत	प्राक्कलित स्वीकृति	प्रशासकीय स्वीकृति
1	2	3	4	5	6	7
कार्य एजेंसी का नाम :- कार्यपालन अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग-दन्तेवाड़ा (राशि लाख में)						
1	नेरली समूह ग्रामीण जल प्रदाय योजना 8 ग्रामों में (नेरली, बेहनार, पीना बचेली, बेनपाल, मदाड़ी, चोलनार, कलेपाल एवं समलवार)	1	नेरली	दन्तेवाड़ा	1482.55	1482.55
	योग	1			1482.55	1482.55
(प्रशासकीय स्वीकृति की राशि शब्दों में चौदह करोड़ बयासी लाख पचपन हजार रुपये मात्र)						

यह स्वीकृति निम्न निर्देशों के तहत प्रदान की जाती है, इनका कड़ाई से पालन किया जावे।

1. कार्य तकनीकी स्वीकृति मापदण्ड के अनुरूप कराई जावे।
2. प्रशासकीय स्वीकृति से अधिक व्यय किसी भी दशा में न किया जावे।
3. कार्यस्थल पर कार्य चलते समय बोर्ड प्रदर्शित करें, जिसमें कार्य के सम्बन्ध में सभी जानकारी का विवरण एवं एनएमडीसी परियोजना का लोगो हो।
4. सामग्री क्रय करते समय भण्डार क्रय नियमों का कड़ाई से पालन किया जावे।
5. कार्य की प्रगति प्रत्येक माह की 25 तारीख तक इस कार्यालय को उपलब्ध कराना सुनिश्चित करें।
6. प्राप्त राशि का उपयोगिता/पूर्णता प्रमाण पत्र एवं फोटोग्राफ्स अनिवार्य रूप से प्रस्तुत किया जावे।

कलेक्टर

दक्षिण बस्तर, दन्तेवाड़ा

दन्तेवाड़ा, दिनांक 30/03/2017

पृ.क्रमांक/...1714.../जिला कार्यालय/एनएमडीसी/2017

प्रतिलिपि:-

1. आयुक्त, बस्तर संभाग-जगदलपुर।
2. मुख्य कार्यपालन अधिकारी, जिला पंचायत-दन्तेवाड़ा।
3. अनुविभागीय अधिकारी (रा) दन्तेवाड़ा।
4. प्रमुख अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग, इन्द्रावती भवन रायपुर।
5. अधीक्षण अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग, जगदलपुर।
6. कार्यपालन अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग-दन्तेवाड़ा को सूचनार्थ एवं पालनार्थ तथा उक्त कार्यस्थल पर योजन एवं लागत राशि का बोर्ड अनिवार्य रूप से प्रदर्शित कर फोटोग्राफ्स प्रस्तुत किया जावे।
7. महाप्रबन्धक, एनएमडीसी किरन्दुल कॉम्प्लेक्स की ओर सूचनार्थ।
8. सूचना पटल पर चस्पा करने हेतु।

कलेक्टर

दक्षिण बस्तर, दन्तेवाड़ा



7/3/16

1/19 28

1/3

In-principle approval of C/A obtained for the proposal of implementation of "Group water supply scheme" through PHE Department, Dantewada, C.G for supply of potable drinking water to 32 villages near Bacheli and Kirandul at a cost of Rs.42.73Cr as deposit work. While according approval, one of the conditions is "after receipt of the detailed cost estimates and vetting thereof at Project level, adequate budgetary provision shall be made under AMR RE 2015-16 with the approval of C/A. Thereafter, administrative approval for implementation of the scheme shall be sought from C/A before executing MOU containing various terms and conditions including payment terms. (c/6).

PHE Deptt proposed to implement the phase-I of the work i.e "Nerli group water supply scheme covering 8 villages" (Nerli, Behnar, Pina Bacheli, Balnpal, Madadi, Cholnar, Kalepal, Samalwar) under Nerli water source. Accordingly, the estimate submitted by PHE Deptt was received by Kirandul project. After processing of file in Civil and Finance Deptts at Project, the proposal was sent to Head office for approval of Rs.1896.739 lakhs (N-11)m for implementing Nerli group water supply scheme. The proposal was verified in Env. Deptt and estimate was verified in Engg Deptt at Head Office. The estimate includes 20% premium over the estimate amount. Civil Deptt also found some observations in estimate and file returned back to project for rectifying the same in consultation with PHE Deptt (N-21 to 27).

Now, the revised estimate is received from Kirandul project for approval of Rs.1482.55 lakhs. The revised estimate verified by Project Civil Department (N-31) and also at HO-Civil Deptt vide N-50. The summary of estimate details is given below.

S. no	Particulars	Revised estimate in Rs. lakhs
1	Preliminary	17.04
2	Land requisition	6.02
3	Provision for stop dam	22.39
4	Construction of Raw water collection sump of capacity 30 KL	5.28
5	Raw water pumping machinery at intake well	1.71
6	Raw water pumping main	61.26
7*	Water Treatment Plant 0.5 MLD capacity	59.09
8	Clear water pumping machinery at WTP	9.73
9	Clear water pumping main	607.28
10	Construction of RCC over Head tanks	57.90
11	Distribution net work	443.33
12	Construction of staff quarters	33.34
13	Miscellaneous	72.31
14	<b>Sub Total (1 to 13)</b>	<b>1396.68</b>
15	Add 1% contingencies	13.97
16	Add 3% for Nakshal prabhawit kshetra	41.90
17	<b>Sub Total - Civil works (14 to 16)</b>	<b>1452.55</b>
18	<b>For Electrical works</b>	<b>30.00</b>
	<b>Grand Total (17 to 18)</b>	<b>1482.55</b>

\*Note: the item rate is not checked at Project due to non submission of budgetary offers by PHE Department.

The details of the scheme are given in enclosed Detailed Project Report. The scheme will be implemented during F.Y 2016-17 & 2018-19. 2017-18

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**NERLI GROUP WATER SUPPLY SCHEM**  
**Block : Kuakonda & District : Dantewada**  
**GENERAL ABSTRACT**

S.R No	Particulars	Cost In Lac	1522.33																														
			Amount (Rs. In lacs)																														
1	Preliminary		(16.90) 17																														
2	Land Requisition		6.02																														
3	Provision for Cross Regulator		22.39																														
4	Raw Water Collection Sump as GSR with Raw Water Pump House		5.28																														
5	Raw Water Pump with 100% Stand Bye 3 HP Centrigugal Pump, Having Discharge ..... with a head 11 M	Ele-10.00 CWT-1.71	11.71																														
6	Raw Water Pumping Main From source Point to WTP Site 150 mm dia D.I. Pipe Class K-9 Length 3030 m		61.26																														
7	Water Treatment Plant Capacity 0.5 MLD		59.09																														
8	Clear Water Pumps 13 HP Centrifugal Pump, Having Discharge 11015 LPH With a Head 191 m. with 50% stand bye	Ele-20.00 CWT-9.73	29.73																														
9	Clear Water Pumping Mains From clear water sump to all OHT's, of 150mm to 100mm Dia. Length 38640 m.		607.28																														
10	RCC Over Head Tanks of Various Capacities for Respective Villages		57.90																														
	<table><tr><th>Name of Village</th><th>Existing</th><th>Proposed</th></tr><tr><td>Nerli</td><td>0</td><td>40 KL</td></tr><tr><td>Behnar</td><td>0</td><td>40 KL</td></tr><tr><td>Pina Bacheli</td><td>0</td><td>40 KL</td></tr><tr><td>Bainpal</td><td>0</td><td>40 KL</td></tr><tr><td>Madadi</td><td>0</td><td>40 KL</td></tr><tr><td>Choinar</td><td>0</td><td>40 KL</td></tr><tr><td>Kalepal</td><td>0</td><td>40 KL</td></tr><tr><td>Samalwar</td><td>0</td><td>40 KL</td></tr><tr><td>TOTAL</td><td>--</td><td>320 KL</td></tr></table>	Name of Village	Existing	Proposed	Nerli	0	40 KL	Behnar	0	40 KL	Pina Bacheli	0	40 KL	Bainpal	0	40 KL	Madadi	0	40 KL	Choinar	0	40 KL	Kalepal	0	40 KL	Samalwar	0	40 KL	TOTAL	--	320 KL		
Name of Village	Existing	Proposed																															
Nerli	0	40 KL																															
Behnar	0	40 KL																															
Pina Bacheli	0	40 KL																															
Bainpal	0	40 KL																															
Madadi	0	40 KL																															
Choinar	0	40 KL																															
Kalepal	0	40 KL																															
Samalwar	0	40 KL																															
TOTAL	--	320 KL																															



S.R No	Particulars	Amount (Rs. In lacs)																		
11	<b>Distribution Network</b> 200mm to 90 mm Dia UPVC pipes.Class 6 Kg Total Length of Distribution 72264 m Distribution Proposed 72264 m. <table border="1"> <thead> <tr> <th>Pipe Dia. &amp; Material</th><th>Existing</th><th>Proposed</th></tr> </thead> <tbody> <tr> <td>140 mm Dia UPVC 6 Kg/Cm<sup>2</sup></td><td>0 m</td><td>15011 m</td></tr> <tr> <td>110 mm Dia UPVC 6 Kg/Cm<sup>2</sup></td><td>0 m</td><td>15726 m</td></tr> <tr> <td>90 mm Dia UPVC 6 Kg/Cm<sup>2</sup></td><td>0 m</td><td>46755 m</td></tr> <tr> <td>Total</td><td>0 m</td><td>77492 m</td></tr> <tr> <td>Total Distribution Length</td><td colspan="2">77492 m</td></tr> </tbody> </table>	Pipe Dia. & Material	Existing	Proposed	140 mm Dia UPVC 6 Kg/Cm <sup>2</sup>	0 m	15011 m	110 mm Dia UPVC 6 Kg/Cm <sup>2</sup>	0 m	15726 m	90 mm Dia UPVC 6 Kg/Cm <sup>2</sup>	0 m	46755 m	Total	0 m	77492 m	Total Distribution Length	77492 m		474.81 443.33
Pipe Dia. & Material	Existing	Proposed																		
140 mm Dia UPVC 6 Kg/Cm <sup>2</sup>	0 m	15011 m																		
110 mm Dia UPVC 6 Kg/Cm <sup>2</sup>	0 m	15726 m																		
90 mm Dia UPVC 6 Kg/Cm <sup>2</sup>	0 m	46755 m																		
Total	0 m	77492 m																		
Total Distribution Length	77492 m																			
12	Construction of Staff Quarters	33.34 ✓																		
14	Inspection Vehicles	5.76																		
15	Miscellaneous	72.31 ✓																		

Net cost Rs. In Lac 1463.78 14.32

Add 1% for contingencies

14.64 14.32

Add 3% for Nakshal Prabhawit Shetra

43.91 17.20

Gross cost Rs. In Lac 1522.33 286.11

Escalation 20% Total → 1776.11

San R 1776.11

Assistant Engineer  
Public Health Engineering  
Sub Division Dantewada (C.G)

Executive Engineer  
Public Health Engineering Division  
Dantewada (C.G)

Superintending Engineer  
Public Health Engineering Circle  
Jagdalpur (C.G)

Technically Sanctioned for Rs. 1522.33 Lacs

in words Rs. fifteen hundred and twenty two Lacs thirty three thousand

Estimate No. 17 /TS/Dated 16.02.16

Chief Engineer  
Public Health Engg Deptt.  
Jagdalpur Zone, Jagdalpur (C.G)

As per Annexure-1  
total civil work estimated  
value worked out to  
Rs 1431.00 lacs.

# NERLI GROUP WATER SUPPLY SCHEME

Block : Kuakonda & District : Dantewada

Estimate No. - 9

## CLEAR WATER PUMPING MAIN

Estimated Cost Rs.607.28Lacs

S. NO	PARTICULARS	QTY	RATE	PER	AMOUNT
1	Earthwork in excavation for pipe trench in all kinds of soil and WBM in areas including dressing, watering and ramming and disposal of excavated earth lead upto 50m & lift upto 1.5m, disposal earth to be levelled, neatly dressed  Dia L D W 150mm dia D.I pipe class K - 9 9498 0.59 0.75 100mm dia D.I pipe class K - 9 29142 0.56 0.75 (CG PHE SOR P.19 It.No. 2.1) 38640	4203.00 12240.00 16443.00	144	Cum	2367792.00
2	Earth work in Excavation for pipe trench in Hard Soil areas including dressing, watering and ramming and disposal of Excavated earth lead up to 50 meters and lift up to 1.5m, disposal earth to be levelled, neatly dressed.  Dia L D W 150mm dia D.I pipe class K - 9 9498 0.43 0.75 100mm dia D.I pipe class K - 9 29142 0.41 0.75 (CG PHE SOR P.19 It.No. 2.2)	3064.00 8962.00 12026.00	191	Cum	2296966.00
3	Earth work in excavation for pipe trench in all kinds of soft rock in areas l/c dressing, watering and ramming and disposal of excavated earth lead upto 50 meters & lift upto 1.5m, disposal earth to be leveled, neatly dressed.  Dia L D W 150mm dia D.I pipe class K - 9 9498 0.14 1.05 100mm dia D.I pipe class K - 9 29142 0.13 1.05 (CG PHE SOR P.19 It.No. 2.5a)	1396.21 3977.89 5374.10	334	Cum	1794949.40
4	Pumping out water caused by springs, tides or river seepage, broken water mains. (CG PHE SOR P.20 It.No. 2.9)	1200	51	KL	61200.00
5	Providing, laying & jointing following socket & spigot centrifugally cast(spun) Ductile Iron pressure pipes with inside cement mortar lining (class K - 9) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on ) joint as per IS : 5382/85 150mm dia D.I pipe class K - 9 100mm dia D.I pipe class K - 9 (CG PHE SOR P.87 It.No. 6.3)	9498.00 29142.00	1542 1040	Mtr Mtr	14645916.00 30307680.00
6	Add 15% for DI Specials				6743039.40
7	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20cm. in depth including consolidation of each layer by ramming watering, lead up to 50m and lift up to 1.5m in all kinds of soils  Quantity of Excavation Deduct volume of pipe & Moorum Quantity Deduct Volume of Pipe Deduct Volume of Concrete (CG PHE SOR P.19 It.No. 2.10.1)	33843.10  167.76 14.62 33660.72	59	Cum	1985982.52



S. NO	PARTICULARS	QTY	RATE	PER	AMOUNT
8	Providing & laying mechanically mixed cement concrete 20mm nominal size graded crushed stone excluding cost of centering & shuttering. 25 x 0.6 x 0.15 4 x 1 x .15 (CG PHE SOR P.21 It.No. 2.21.1.1)	2.25 0.60 2.85			
9	Providing & laying mechanically mixed cement concrete 20mm maximum size graded crushed stone excluding cost of centering & shuttering. Superstructure. for Encasing pipe in road crossings 25 m x 0.6 x 0.6 Less pipe volum of 250mm pipe Net Quantity of Concrete For thrust blocks 4 Nos. 1 <sup>st</sup> 1	9 1.23 7.77 4	3325	Cum	9476.25
10	Providing and placing in position cold twisted or un-coated HYSD steel bar and hot rolled deformed steel reinforcement for R.C.C. work I/c cutting, bending, binding etc. complete I/c cost of binding wire and wastage. Sub structure 11.77 x (.5/100)*7850 (CG PHE SOR P.23 It.No. 2.25.1.2)	11.77 461.9725	4484	Cum	52776.68
11	Construction of Rcc valve chamber with Rcc precast covers 100mm to 300mm dia (CG PHE SOR Item No. 23.10(1.6) Page No.259)	35	12482	each	436870.00
12	(0 x 30% x 1.25 x 0.2)	0	4031	Cum	0.00


Total

60728056.79

Say 607.28

Lacs

  
Assistant Engineer  
Public Health Engineering  
Sub Division Dantewada (C.G)

  
Executive Engineer  
Public Health Engineering Division  
Dantewada (C.G)