|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Урок 85. Составление ведомости объема работ на ремонт электроустановок общего назначения.  Краткое описание объемов работ трансформатора ТДН-16000/110/6 Капитальный ремонт трансформатора со сменой масла.* Покраска трансформаторов на 2 раза.
* Сушка трансформаторного масла.

  Испытание трансформатора, вывоз на площадку хранения резервных трансформаторов.Пример.

|  |  |
| --- | --- |
| Ведомость объема работ на ремонт трансформатора  |  |
|  |  |  |  |  |  |  |
| № пп | Наименование | Ед. изм. | Кол. | Примечание |  |  |
| 1 | 2 | 3 | 4 | 5 |  |  |
| 1 | Ремонт силового масляного трансформатора трехфазного двух обмоточного класса напряжения 110кВ, без смены обмоток, мощность 16000кВА | шт. | 1 |  |  |  |
| 2 | Прогрев трансформатора | опер. | 1 |  |  |  |
| 3 | Подсушка трансформатора | опер. | 1 |  |  |  |
| 4 | Демонтаж-монтаж навесного оборудования | компл. | 1 |  |  |  |
| 5 | Вскрытие трансформатора, подъем съемного бака и осмотр его  | компл. | 1 |  |  |  |
| 6 | Проверка магнитопровода, обмоток, переключателей, отводов, схемы заземления. | компл. | 1 |  |  |  |
| 7 | Ремонт навесного оборудования с изготовлением и заменой резиновых уплотнителей | компл. | 1 |  |  |  |
| 8 | Проверка системы прессовки обмоток и производство подпрессовки обмоток | компл. | 1 |  |  |  |
| 9 | Сушка масла, смена сорбента в фильтрах | компл. | 1 |  |  |  |
| 10 | Ремонт задвижек, кранов, шиберов | компл. | 1 |  |  |  |
| 11 | Ремонт вводов | ввод | 7 |  |  |  |
| 12 | Испытание вводов | ввод | 7 |  |  |  |
| 13 | Монтаж привода РПН, МЗ-2 | шт. | 1 |  |  |  |
| 14 | Ремонт лакокрасочного покрытия на каждый последующий слой | м2 | 250 |  |  |  |
| 15 | Испытание трансформатора | компл. | 1 |  |  |  |
| 16 | Оформление технической документации | компл. | 1 |  |  |  |
| 17 | Выгрузка трансформатора-2 операции | т | 46 |  |  |  |
| 18 | Погрузка трансформатора-2 операции | т | 46 |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  **Ведомость потребных материалов** |  |  |  |  |  |
| № пп | Наименование | Ед. изм. | Кол. | Поставка |  |  |
| 1 | Масло трансформаторное | т | 0,2 | подрядчик |  |  |
| 2 | Ветошь | кг | 3 | подрядчик |  |  |
| 3 | Изделия резиновые технические морозобензостойкие толщиной 6 мм | кг | 25 | подрядчик |  |  |
| 4 | Электроды диаметром 4 мм МР-3 | т | 0,008 | подрядчик |  |  |
| 5 | Бензин | л | 8 | подрядчик |  |  |
| 6 | Шкурка шлифовальная | м2 | 1 | подрядчик |  |  |
| 7 | Эмаль ПФ-115 серая | кг | 6 | подрядчик |  |  |
| 8 | Силикагель | кг | 100 | подрядчик |  |  |
| 9 | Кислород технический газообразный | м3 | 4,5 | подрядчик |  |  |
| 10 | Пропан-бутан, смесь техническая | м3 | 1,5 | подрядчик |  |  |
| 11 | Швеллер | т | 0,05 | подрядчик |  |  |
| 12 | Пруток латунный | кг | 4 | подрядчик |  |  |
| 13 | Спирт тех. | л | 0,2 | подрядчик |  |  |
| 14 | Привод РПН - МЗ-2 | шт | 1 | подрядчик |  |  |
|  | Задание: составить ведомость объема ремонта ТДН-16000/110/6трансформатора. |  |  |
|  |  |  |  |  |  |  |

 |
|  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |